

Materials Summary: 2002

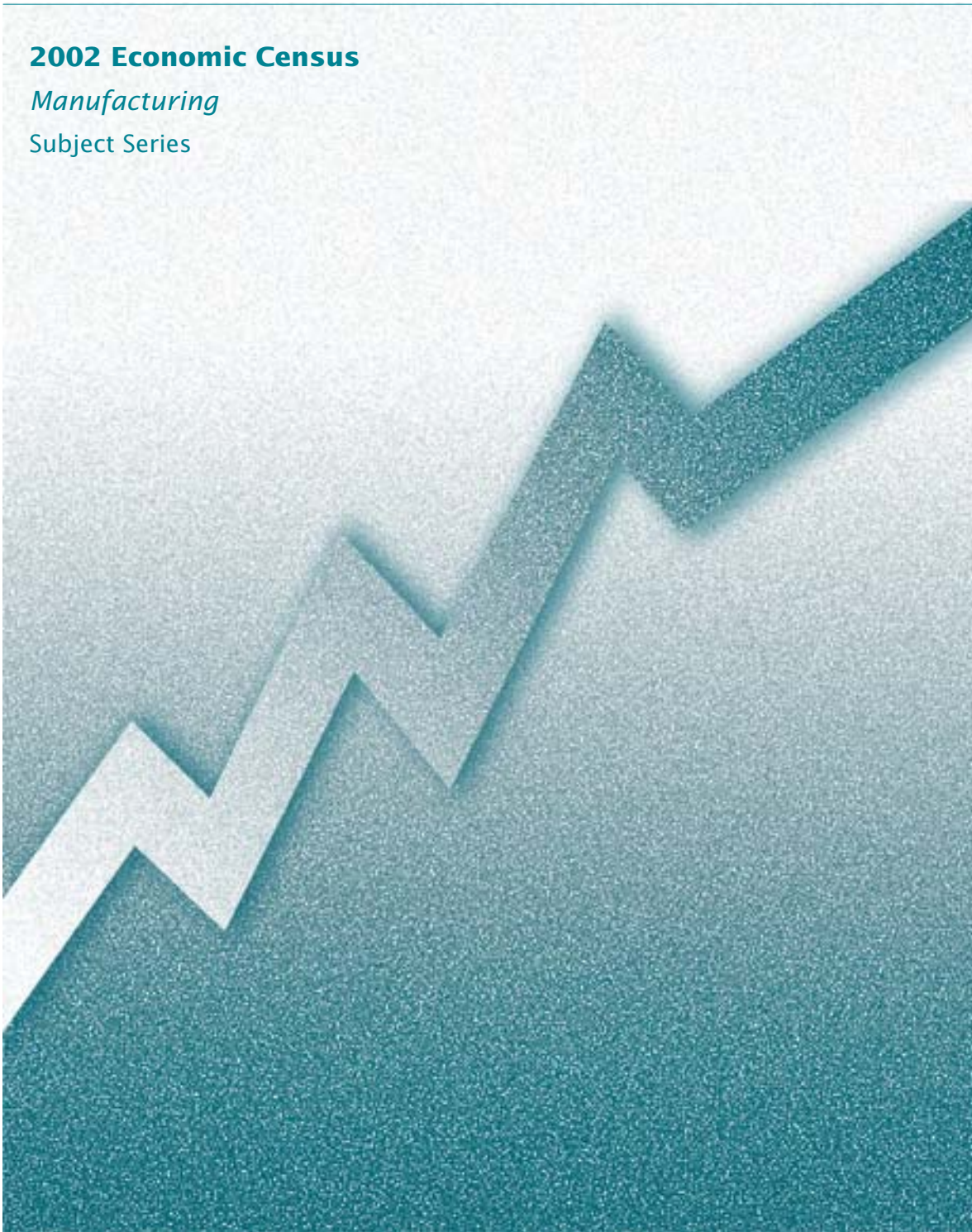
Issued May 2006

EC02-31SM-1

2002 Economic Census

Manufacturing

Subject Series



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ACKNOWLEDGMENTS

This report was prepared in the Manufacturing and Construction Division under the direction of **Mendel D. Gayle**, Assistant Division Chief for Census and Related Programs, who was responsible for the overall planning, management, and coordination. **Arminta N. Quash**, Chief, Census and Related Programs Support Branch, assisted by **Arlanda Allen** and **Ernest Wilson Jr.**, Section Chiefs, **Robert Reinard**, Chief, Consumer Goods Industries Branch, assisted by **Suzanne Conard**, **Susan DiCola**, and **James Hinckley**, Section Chiefs, **Raphael Corrado**, Chief, Investment Goods Industries Branch, assisted by **Chris Blackburn**, **Theresa Crowley**, and **Wanda Sledd**, Section Chiefs, **Nathaniel Shelton**, Chief, Primary Goods Industries Branch, assisted by **Walter Hunter**, **Joanna Nguyen**, and **Athanasios Theodoropoulos**, Section Chiefs, and **Keith Fuller**, **Kenneth Hansen**, **Robert Miller**, and **Robert Rosati**, Special Assistants, performed the planning and implementation. **Larry Blumberg**, **Phillip Brown**, **Brenda Campbell**, **Catherine Cooper**, **Paul Corey**, **Mary Kim Corley**, **Vance Davis**, **Jesse Dawson**, **Kellie Friedrich**, **Vera Harris-Bourne**, **James Day**, **Joe Guido**, **Nancy Higgins**, **Steven Hood**, **Rachael Horwitz**, **Tom Ickes**, **Christina Kane**, **Daphne Kelly**, **Cathy Knudsen**, **Kristen Lauziere**, **Mai Ngan Le**, **Jennifer Lee**, **Robert Lee**, **Jennifer Leotta**, **John Linehan**, **Emily Mayer**, **Keith McKenzie**, **Blynda Metcalf**, **Stanley Montgomery**, **Philippe Morris**, **Madelyn Nieves**, **Betty Pannell**, **Bridgett Parker-Bell**, **Dorothy Parsons**, **Gloria Peebles-Butler**, **Michael Perkinson**, **Lindsay Peters**, **Deanna Pickerall**, **Dana Sklut**, **LaTanya Steele**, **Susan Sundermann**, **Myss Sykes-Stephens**, **Betty Sutter**, **Dora Thomas**, **Ronanne Vinson**, **Keeley Voor**, **Denneth Wallace**, **Hilda Ward**, **Edward Watkins III**, **Barbara Wongus**, and **Kevin Younes**, provided primary staff assistance.

Arminta N. Quash, Chief, Census and Related Programs Support Branch, assisted by **Kimberly DePhillip** and **Baruti Taylor**, Section Chiefs, performed overall coordination of the publication process. **Patrick Duck**, **Michael Flaherty**, **Dennis Gosier**, **Taylor C. Murph**, and **Veronica White** provided primary staff assistance.

Mathematical and statistical techniques as well as the coverage operations were provided by **Paul Hsen**, Assistant Division Chief for Research and Methodology Programs, assisted by **Stacey Cole**, Chief, Manufacturing Methodology Branch, and **Robert Struble**, Section Chief, and **Jeffrey Dalzell** and **Cathy Gregor**, who provided primary staff assistance.

Eddie J. Salyers, Assistant Division Chief of Economic Planning and Coordination Division, was responsible for overseeing the editing and tabulation procedures and the interactive analytical software. **Dennis Shoemaker** and **Kim Wortman**, Special Assistants, **John D. Ward**, Chief, Analytical Branch, and **Brandy L. Yarbrough**, Chief, Edit Branch, were responsible for developing the systems and procedures for data collection, editing, review, and correction. **Donna L. Hambric**, Chief of the Economic Planning Staff, was responsible for overseeing the systems and information for dissemination. **Douglas J. Miller**, Chief, Tables and Dissemination Branch, assisted by **Lisa Aispuro**, **Jamie Fleming**, **Andrew W. Hait**, **Shawna J. Orzechowski**, and **John Walsh**, was responsible for developing the data dissemination systems and procedures.

The Geography Division staff, **Robert LaMacchia**, Chief, developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Howard R. Hogan**, Chief, developed and coordinated the computer processing systems. **Barry F. Sessamen**, Assistant Division Chief for Post Collection, was responsible for design and implementation of the processing system and computer programs. **Gary T. Sheridan**, Chief, Macro Analytical Branch, assisted by **Apparao V. Katikineni** and **Edward F. Johnson**, provided computer programming and implementation.

The Systems Support Division provided the table composition system. **Robert Joseph Brown**, Table Image Processing System (TIPS) Senior Software Engineer, was responsible for the design and development of the TIPS, under the supervision of **Robert J. Bateman**, Assistant Division Chief, Information Systems.

The staff of the National Processing Center performed mailout preparation and receipt operations, clerical and analytical review activities, and data entry.

Margaret A. Smith, **Bernadette J. Beasley**, and **Michael T. Browne** of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, provided publication and printing management, graphics design and composition, and editorial review for print and electronic media. General direction and production management were provided by **James R. Clark**, Assistant Division Chief, and **Susan L. Rappa**, Chief, Publications Services Branch.

Special acknowledgment is also due the many businesses whose cooperation contributed to the publication of these data.

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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in "2" and "7."

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and to assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart

from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933. Censuses of construction, manufacturing, and the other business censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Manufacturing

SCOPE

The Manufacturing sector (sector 31-33) comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector. Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. Both types of establishments are included in manufacturing.

The materials, substances, or components transformed by manufacturing establishments are raw materials that are products of agriculture, forestry, fishing, mining, or quarrying, as well as products of other manufacturing establishments. The materials used may be purchased directly from producers, obtained through customary trade channels, or secured without recourse to the market by transferring the product from one establishment to another, under the same ownership. The new product of a manufacturing establishment may be finished in the sense that it is ready for utilization or consumption, or it may be semifinished to become an input for an establishment engaged in further manufacturing. For example, the product of the alumina refinery is the input used in the primary production of aluminum; primary aluminum is the input to an aluminum wire drawing plant; and aluminum wire is the input for a fabricated wire product manufacturing establishment.

The subsectors in the manufacturing sector generally reflect distinct production processes related to material inputs, production equipment, and employee skills. In the machinery area, where assembling is a key activity, parts and accessories for manufactured products are classified in the industry of the finished manufactured item when they are made for separate sale. For example, a replacement refrigerator door would be classified with refrigerators and an attachment for a piece of metal working machinery would be classified with metal working machinery. However, components, input from other manufacturing establishments, are classified based on the production function of the component manufacturer. For example, electronic components are classified in Subsector 334, Computer and Electronic Product Manufacturing; and stampings are classified in Subsector 332, Fabricated Metal Product Manufacturing.

Manufacturing establishments often perform one or more activities that are classified outside the manufacturing sector of NAICS. For instance, almost all manufacturing has some captive research and development or administrative operations, such as accounting, payroll, or management. These captive services are treated the same as captive manufacturing activities. When the services are provided by separate establishments, they are classified to the NAICS sector where such services are primary, not in manufacturing.

The boundaries of manufacturing and the other sectors of the classification system can be somewhat blurry. The establishments in the manufacturing sector are engaged in the transformation of materials into new products. Their output is a new product. However, the definition of what constitutes a new product can be somewhat subjective. As clarification, the following activities are

considered manufacturing in NAICS: milk bottling and pasteurizing; water bottling and processing; fresh fish packaging (oyster shucking, fish filleting); apparel jobbing (assigning of materials to contract factories or shops for fabrication or other contract operations); as well as contracting on materials owned by others; printing and related activities; ready-mixed concrete production; leather converting; grinding of lenses to prescription; wood preserving; electroplating, plating, metal heat treating, and polishing for the trade; lapidary work for the trade; fabricating signs and advertising displays; rebuilding or remanufacturing machinery (i.e., automotive parts); ship repair and renovation; machine shops; and tire retreading.

Exclusions. There are activities that are sometimes considered manufacturing, but for NAICS are classified in another sector. These activities include logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; the beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; the construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; establishments engaged in breaking of bulk and redistribution in smaller lots, including packaging, repackaging, or bottling products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing paints to customer order; and cutting metals to customer order, classified in Sector 42, Wholesale Trade or Sector 44-45, Retail Trade, produce a modified version of the same product, not a new product; and publishing and the combined activity of publishing and printing, classified in Sector 51, Information, perform the transformation of information into a product where as the value of the product to the consumer lies in the information content, not in the format in which it is distributed (i.e., the book or software diskette).

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve manufacturing establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in Nonemployer Statistics. The contribution of nonemployers, relatively small for this sector, may be examined at www.census.gov/nonemployerimpact.

The reports described below cover all manufacturing establishments with one or more paid employees.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector:

Industry Series. There are 473 reports, each covering a single NAICS industry (six-digit code). These reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, capital expenditures, etc. The industry reports also include data for states with 100 employees or more in the industry. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There are 51 separate reports, one for each state and the District of Columbia. Each state report presents similar statistics at the “all manufacturing” level for each state and its metropolitan and micropolitan areas with 250 employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

Subject Series:

- **Industry-Product Analysis Summary.** This report presents value of shipments, value of product shipments, percentage of product shipments of the total value of shipments, and percentage of distribution of value of product shipments on the NAICS six-digit industry level and by the six- and seven-digit product code levels. It also includes miscellaneous receipts at the six- and seven-digit product code levels by NAICS six-digit industry levels.
- **General Summary.** This report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.
- **Product Summary.** This report summarizes the products data published in the industry reports. This report also includes a table with data for products that are primary to more than one industry, which are not in the industry reports.
- **Materials Summary.** This report summarizes the materials data published in the industry reports.
- **Concentration Ratio Summary.** This report publishes data on the percentage of value of shipments and value added accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Herfindahl-Hirschman indexes for each industry.
- **Location of Manufacturing Plants Summary.** This report contains statistics on the number of establishments for the three- and six-digit NAICS industry by state, county, place, and ZIP Code by employment-size of the establishment.

Other reports. Data for this sector are also included in reports with multisector coverage, including Nonemployer Statistics, Comparative Statistics, Bridge Between 2002 NAICS and 1997 NAICS, Business Expenses, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Maps are available at www.census.gov/econ2002maps. Notes specific to areas in the state are included in Appendix D, Geographic Notes.

1. The United States as a whole.
2. States and the District of Columbia.
3. Metropolitan and micropolitan statistical areas with 250 employees or more. Core based statistical areas (CBSA) contain a core area with a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. CBSAs are differentiated into metropolitan and micropolitan statistical areas based on size criteria. Both metropolitan and micropolitan areas are defined in terms of entire counties, and are listed in Appendix E, Metropolitan and Micropolitan Statistical Areas.
 - a. Metropolitan Statistical Areas (metro areas). Metro areas have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - b. Micropolitan Statistical Areas (micro areas). Micro areas have at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - c. Metropolitan Divisions (metro divisions). If specified criteria are met, a metro area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions.

-
- d. Combined Statistical Areas (combined areas). If specified criteria are met, adjacent metro and micro areas, in various combinations, may become the components of a new set of areas called Combined Statistical Areas. The areas that combine retain their own designations as metro or micro areas within the larger combined area.
4. Counties and county equivalents defined as of January 1, 2002, with 500 employees or more. Counties are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs, census areas, and city and boroughs. Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their states. These places are treated as counties and as places.
 5. Economic places with 500 employees or more.
 - a. Municipalities of 2,500 inhabitants or more defined as of January 1, 2002. These are areas of significant population incorporated as cities, boroughs, villages, or towns according to the 2000 Census of Population. For the economic census, boroughs and census areas in Alaska and boroughs in New York are not included in this category.
 - b. Consolidated cities defined as of January 1, 2002. Consolidated cities are consolidated governments that consist of separately incorporated municipalities.
 - c. Townships in Michigan, New Jersey, and Pennsylvania, and towns in New York, Wisconsin, and the six New England states with 10,000 inhabitants or more (according to the 2000 Census of Population).
 - d. Balance of county. Areas outside the entities listed above, including incorporated municipalities with populations of fewer than 2,500, town and townships not qualifying as noted above, and the remainders of counties outside places are categorized as "Balance of county."

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). While there were revisions to selected industries for 2002, this sector is not affected by those revisions.

For 2002, there has been an additional data table and an additional report added, which did not exist in 1997. The table for 2002 shows data for products primary to more than one industry. The report for 2002 is the **Industry-Product Analysis Summary**.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data. Selected data in tables titled "Detailed Statistics" are based on the Annual Survey of Manufactures and are subject to sampling errors as well as nonsampling errors.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for "industry statistics" files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 55,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data. In addition to the ASM, the Census Bureau conducts the Current Industrial Reports (CIR) program. The CIR program publishes selected detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) Program, which publishes detailed statistics for manufacturing industries at the U.S. level.

In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or ask.census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

A	Standard error of 100 percent or more
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue
N	Not available or not comparable
S	Withheld because estimates did not meet publication standards
X	Not applicable
Z	Less than half the unit shown
a	0 to 19 employees
b	20 to 99 employees
c	100 to 249 employees
e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees

l	50,000 to 99,999 employees
m	100,000 employees or more
p	10 to 19 percent estimated
q	20 to 29 percent estimated
r	Revised
s	Sampling error exceeds 40 percent
nsk	Not specified by kind
-	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311111	Dog and cat food manufacturing		
00900001	Total materials .....2002..	X	3 750 867
	.....1997..	X	3 690 959
11114001	Wheat 1,000 s tons ..2002..	P345.7	39 098
	.....1997..	260.8	37 755
11115001	Field corn, whole grain mil lb ..2002..	5 142.0	252 873
	.....1997..	5 485.9	337 791
11119901	Oats 1,000 s tons ..2002..	17.3	3 284
	.....1997..	13.8	2 630
11119903	Barley..... 1,000 s tons ..2002..	83.9	10 605
	.....1997..	11.1	3 064
11119905	Sorghum 1,000 s tons ..2002..	D	D
	.....1997..	D	D
31121101	Wheat flour 1,000 cwt..2002..	3 901.5	41 773
	.....1997..	S	60 013
31121115	Wheat millfeed and screenings 1,000 s tons ..2002..	399.2	31 760
	.....1997..	S	57 355
31122207	Soybean millfeed and screenings 1,000 s tons ..2002..	50.4	7 420
	.....1997..	51.6	10 125
31121135	Other millfeed and screenings 1,000 s tons ..2002..	D	D
	.....1997..	929.9	5 711
31121137	Hominy feed and corn meal 1,000 s tons ..2002..	24.4	4 460
	.....1997..	21.1	5 343
31122109	Corn gluten feed and meal 1,000 s tons ..2002..	559.7	137 678
	.....1997..	489.1	136 512
31111900	Alfalfa meal (excluding alfalfa hay) 1,000 s tons ..2002..	1.6	298
	.....1997..	D	D
31131002	Sugar, cane and beet (sugar solids), excluding molasses 1,000 s tons ..2002..	15.2	8 376
	.....1997..	N	N
31131007	Molasses 1,000 s tons ..2002..	.9	190
	.....1997..	S	503
31122307	Cottonseed cake and meal 1,000 s tons ..2002..	D	D
	.....1997..	D	D
31100017	Fats and oils 1,000 s tons ..2002..	P513.0	159 502
	.....1997..	463.7	174 086
31161303	Meat meal and tankage 1,000 s tons ..2002..	9752.9	179 664
	.....1997..	P1 075.7	318 622
31161305	Poultry feather and byproducts meal 1,000 s tons ..2002..	P915.8	301 216
	.....1997..	469.5	205 682
31170000	Fish meal and solubles (dry weight equivalent) 1,000 s tons ..2002..	S	75 371
	.....1997..	225.4	100 931
31212000	Brewers' and distillers' grains 1,000 s tons ..2002..	352.8	55 529
	.....1997..	233.3	70 877
31122205	Soybean cake and meal 1,000 s tons ..2002..	528.6	89 711
	.....1997..	627.1	154 191
32518827	Calcium 1,000 s tons ..2002..	89.9	3 307
	.....1997..	P71.2	3 029
32518837	Phosphorus, elemental (technical) 1,000 s tons ..2002..	12.8	4 338
	.....1997..	S	17 882
31194205	Salt 1,000 s tons ..2002..	104.5	6 452
	.....1997..	S	2 767
32518841	Other minerals (excluding trace minerals) 1,000 s tons ..2002..	P39.1	9 852
	.....1997..	20.9	13 663
32541109	Vitamins..... 1,000 s tons ..2002..	X	75 470
	.....1997..	X	44 219
32541111	Drugs and antibiotics..... 1,000 s tons ..2002..	X	781
	.....1997..	X	D
32541105	Other microingredients (including trace minerals) 1,000 s tons ..2002..	X	66 149
	.....1997..	X	65 670
32221001	Paperboard containers, boxes, and corrugated paperboard 1,000 s tons ..2002..	X	87 398
	.....1997..	X	82 972
001900A1	Packaging paper and plastics film, coated and laminated 1,000 s tons ..2002..	X	72 246
	.....1997..	X	93 051
31491101	Textile bags (burlap, cotton, polypropylene, etc.) 1,000 s tons ..2002..	X	307
	.....1997..	X	D
001900A3	Bags (plastics, foil, and coated paper) 1,000 s tons ..2002..	X	179 024
	.....1997..	X	138 999
32222401	Bags (uncoated paper and multiwall) 1,000 s tons ..2002..	X	202 744
	.....1997..	X	102 370
33243101	Metal cans, lids, and ends 1,000 s tons ..2002..	X	458 283
	.....1997..	X	377 377
00970099	All other materials and components, parts, containers, and supplies 1,000 s tons ..2002..	X	653 555
	.....1997..	X	628 370
00971000	Materials, ingredients, containers, and supplies, nsk 1,000 s tons ..2002..	X	493 573
	.....1997..	X	434 739
311119	Other animal food manufacturing		
00900001	Total materials .....2002..	X	11 204 824
	.....1997..	X	13 184 849
11114001	Wheat 1,000 s tons ..2002..	2 016.1	171 493
	.....1997..	S	141 556
11115001	Field corn, whole grain mil lb ..2002..	55 055.2	2 683 088
	.....1997..	S	3 109 926
11119901	Oats 1,000 s tons ..2002..	387.2	63 807
	.....1997..	552.0	80 092
11119903	Barley..... 1,000 s tons ..2002..	835.5	90 892
	.....1997..	749.6	95 804
11119905	Sorghum 1,000 s tons ..2002..	227.7	21 179
	.....1997..	S	157 140
31121101	Wheat flour 1,000 cwt..2002..	2 451.8	18 650
	.....1997..	S	43 597
31121115	Wheat millfeed and screenings 1,000 s tons ..2002..	1 245.9	98 448
	.....1997..	S	291 952
31122207	Soybean millfeed and screenings 1,000 s tons ..2002..	2 107.2	272 963
	.....1997..	988.5	178 975
31121135	Other millfeed and screenings 1,000 s tons ..2002..	549.9	59 193

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311119	Other animal food manufacturing—Con.		
31121137	Hominy feed and corn meal 1,000 s tons ..2002..	S 938.2	190 965 100 861
31122109	Corn gluten feed and meal 1,000 s tons ..2002..	198.2 537.6	26 017 66 530
31111900	Alfalfa meal (excluding alfalfa hay) 1,000 s tons ..2002..	1997.. 424.0	82 844 37 158
31131002	Sugar, cane and beet (sugar solids), excluding molasses 1,000 s tons ..2002..	1997.. 274.7	45 275 7 637
31131007	Molasses 1,000 s tons ..2002..	1997.. N 852.1	N 94 232
31122307	Cottonseed cake and meal 1,000 s tons ..2002..	1997.. 767.6 575.8	77 357 84 701 193 416
31100017	Fats and oils 1,000 s tons ..2002..	1997.. S 1 096.9	273 838 380 333
31161303	Meat meal and tankage 1,000 s tons ..2002..	1997.. 1 150.5	158 781 318 783
31161305	Poultry feather and byproducts meal 1,000 s tons ..2002..	1997.. 791.0	206 362 317 502
31170000	Fish meal and solubles (dry weight equivalent) 1,000 s tons ..2002..	1997.. 1 130.3 1 091.0	74 227 126 557 67 197
31212000	Brewers' and distillers' grains 1,000 s tons ..2002..	1997.. 283.3 618.7	84 182 1 493 570 2 495 334
31122205	Soybean cake and meal 1,000 s tons ..2002..	1997.. 8 709.2 9 580.7	45 060 51 151 131 337
32518827	Calcium 1,000 s tons ..2002..	1997.. 1 432.0 S	186 767 26 183
32518837	Phosphorus, elemental (technical) 1,000 s tons ..2002..	1997.. 498.3 750.1	354 149 19 545
31194205	Salt 1,000 s tons ..2002..	1997.. 538.8 S	38 852 133 889 214 439
32518841	Other minerals (excluding trace minerals) 1,000 s tons ..2002..	1997.. 717.8 S	175 835 379 116 206 713
32541109	Vitamins 2002..	1997.. X X	368 890 305 147 354 149
32541111	Drugs and antibiotics 2002..	1997.. X X	19 545 9 393 27 829
32541105	Other microingredients (including trace minerals) 2002..	1997.. X X	45 126 29 973 8 377
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	1997.. X X	18 954 39 600 59 345
001900A1	Packaging paper and plastics film, coated and laminated 2002..	1997.. X X	65 031 40 220
31491101	Textile bags (burlap, cotton, polypropylene, etc.) 2002..	1997.. X X	567 1 919 975 942 793
001900A3	Bags (plastics, foil, and coated paper) 2002..	1997.. X X	1 920 012 2 042 991
32222401	Bags (uncoated paper and multiwall) 2002..	1997.. X X	
33243101	Metal cans, lids, and ends 2002..	1997.. X	
00970099	All other materials and components, parts, containers, and supplies 2002..	1997.. X	
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	1997.. X	
311211	Flour milling		
00900001	Total materials 2002..	X	4 498 414
11114003	Wheat mil bushels ..2002..	X P813.1	5 761 270 3 172 601
11115003	Corn mil bushels ..2002..	1997.. 785.0 P123.0	3 990 970 327 545 453 351
11119911	Barley mil bushels ..2002..	1997.. D P1.9	D 6 538
11119913	Oats mil bushels ..2002..	1997.. D	D
11110005	Other grains (excluding wheat, corn, oats, barley, rice (rough), and sorghum) mil bushels ..2002..	1997.. P12.0 D	43 158 D
31121101	Wheat flour 1,000 cwt ..2002..	1997.. 6 923.8	72 983 127 929
31100015	Fats and oils mil lb ..2002..	1997.. 16 424.0 S	20 315 N
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons ..2002..	1997.. N 14.5	N 8 085
32222401	Bags (uncoated paper and multiwall) 2002..	1997.. N X	N 62 322 50 478
31491101	Textile bags (burlap, cotton, polypropylene, etc.) 2002..	1997.. X	11 844
001900A3	Bags (plastics, foil, and coated paper) 2002..	1997.. X	6 106
001900A1	Packaging paper and plastics film, coated and laminated 2002..	1997.. X	19 362
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	1997.. X	N 15 142
00970099	All other materials and components, parts, containers, and supplies 2002..	1997.. X	N 24 141
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	1997.. X	N 330 768 480 517 331 304 524 213

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311212	Rice milling		
00900001	Total materials 2002..	X	1 080 594
	1997..	X	1 663 821
11116000	Rice, rough mil lb. .2002..	P10 447.2	777 675
	1997..	S	1 431 176
32222401	Bags (uncoated paper and multiwall) 2002..	X	10 217
	1997..	X	D
31491101	Textile bags (burlap, cotton, polypropylene, etc.) 2002..	X	16 042
	1997..	X	44 336
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	10 937
	1997..	X	3 230
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	5 318
	1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	13 992
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	162 633
	1997..	X	48 540
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	83 780
	1997..	X	114 497
311213	Malt manufacturing		
00900001	Total materials 2002..	X	301 848
	1997..	X	506 961
11114003	Wheat mil bushels .2002..	.6	1 839
	1997..	N	N
11119911	Barley mil bushels .2002..	S	295 568
	1997..	151.8	493 365
11110005	Other grains (excluding wheat, corn, oats, barley, rice (rough), and sorghum) mil bushels .2002..	.1	221
	1997..	N	N
32222401	Bags (uncoated paper and multiwall) 2002..	X	D
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	1 356
	1997..	X	7 241
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	2 183
	1997..	X	6 355
311221	Wet corn milling		
00900001	Total materials 2002..	X	3 967 329
	1997..	X	4 443 432
11116000	Rice, rough mil lb. .2002..	D	D
	1997..	280.7	160 567
11115003	Corn mil bushels .2002..	S	2 662 049
	1997..	D	3 675 049
11119915	Sorghum mil lb. .2002..	D	D
	1997..	D	D
31161105	Tallow and stearin, edible mil lb. .2002..	D	D
	1997..	N	N
31491101	Textile bags (burlap, cotton, polypropylene, etc.) 2002..	X	D
	1997..	X	2 253
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	D
	1997..	X	D
32222401	Bags (uncoated paper and multiwall) 2002..	X	17 595
	1997..	X	28 373
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	7 871
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies 2002..	X	481 363
	1997..	X	481 121
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	686 156
	1997..	X	14 656
311222	Soybean processing		
00900001	Total materials 2002..	X	9 152 142
	1997..	X	11 262 847
11115003	Corn mil bushels .2002..	D	D
	1997..	N	N
11119915	Sorghum mil lb. .2002..	D	D
	1997..	N	N
11111000	Soybean seeds, nuts, and beans 1,000 s tons .2002..	42 459.7	7 086 505
	1997..	36 797.5	9 380 234
11192003	Cottonseed seeds, nuts, and beans 1,000 s tons .2002..	D	D
	1997..	N	N
11100007	Other seeds, nuts, and beans (excluding cottonseed, sunflower, soybean, flaxseed, and peanuts) 1,000 s tons .2002..	D	D
	1997..	N	N
31122301	Cottonseed oil, crude mil lb. .2002..	D	D
	1997..	N	N
31122303	Cottonseed oil, once-refined mil lb. .2002..	D	D
	1997..	N	N
31122001	Cottonseed oil, fully-refined mil lb. .2002..	D	D
	1997..	N	N
31122201	Soybean oil, crude mil lb. .2002..	3 492.2	636 690
	1997..	1 443.7	339 041
31122203	Soybean oil, once-refined mil lb. .2002..	D	D
	1997..	N	N
31122003	Soybean oil, fully-refined mil lb. .2002..	D	D
	1997..	N	N
31122123	Corn oil, crude mil lb. .2002..	D	D
	1997..	N	N
31122125	Corn oil, once-refined mil lb. .2002..	D	D
	1997..	N	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311222	Soybean processing—Con.		
31122127	Corn oil, fully-refined mil lb . .2002..	D	D
	1997..	N	N
31122309	Other crude oil mil lb . .2002..	D	D
	1997..	N	N
31122005	Other oil, fully-refined mil lb . .2002..	D	D
	1997..	N	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	326 240
	1997..	X	891 437
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	881 316
	1997..	X	652 135
311223	Other oilseed processing		
00900001	Total materials2002..	X	699 109
	1997..	X	1 321 571
11192003	Cottonseed seeds, nuts, and beans1,000 s tons . .2002..	1 430.3	141 311
	1997..	4 232.0	580 883
11119907	Flaxseed seeds, nuts, and beans1,000 s tons . .2002..	D	D
	1997..	D	D
11199201	Peanut seeds, nuts, and beans1,000 s tons . .2002..	D	D
	1997..	D	D
11119909	Sunflower seeds, nuts, and beans1,000 s tons . .2002..	D	D
	1997..	D	D
11100007	Other seeds, nuts, and beans (excluding cottonseed, sunflower, soybean, flaxseed, and peanuts)1,000 s tons . .2002..	D	D
	1997..	D	D
31122301	Cottonseed oil, crude mil lb . .2002..	D	D
	1997..	D	D
31122201	Soybean oil, crude mil lb . .2002..	D	D
	1997..	N	N
31122123	Corn oil, crude mil lb . .2002..	D	D
	1997..	N	N
31122309	Other crude oil mil lb . .2002..	D	D
	1997..	N	N
31491101	Textile bags (burlap, cotton, polypropylene, etc.)2002..	X	813
	1997..	X	N
001900A3	Bags (plastics, foil, and coated paper)2002..	X	D
	1997..	X	N
32222401	Bags (uncoated paper and multiwall)2002..	X	D
	1997..	X	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	D
	1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)2002..	X	D
	1997..	X	N
32610029	Plastics containers2002..	X	D
	1997..	X	N
32721301	Glass containers2002..	X	D
	1997..	X	N
33240000	Metal containers2002..	X	1 489
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	65 012
	1997..	X	190 061
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	243 387
	1997..	X	57 794
311225	Fats and oils refining and blending		
00900001	Total materials2002..	X	5 216 828
	1997..	X	5 557 230
11111000	Soybean seeds, nuts, and beans1,000 s tons . .2002..	2 908.0	641 824
	1997..	N	N
11192003	Cottonseed seeds, nuts, and beans1,000 s tons . .2002..	D	D
	1997..	N	N
11100007	Other seeds, nuts, and beans (excluding cottonseed, sunflower, soybean, flaxseed, and peanuts)1,000 s tons . .2002..	D	D
	1997..	N	N
31122301	Cottonseed oil, crude mil lb . .2002..	D	D
	1997..	164.9	49 865
31122303	Cottonseed oil, once-refined mil lb . .2002..	P164.5	34 964
	1997..	163.3	43 733
31122001	Cottonseed oil, fully-refined mil lb . .2002..	42.1	9 855
	1997..	117.8	31 948
31122201	Soybean oil, crude mil lb . .2002..	6 243.1	1 089 313
	1997..	7 411.2	1 786 045
31122203	Soybean oil, once-refined mil lb . .2002..	P289.5	64 686
	1997..	D	D
31122003	Soybean oil, fully-refined mil lb . .2002..	4 712.1	919 937
	1997..	P3 165.9	824 123
31122123	Corn oil, crude mil lb . .2002..	P133.1	28 823
	1997..	203.4	54 045
31122125	Corn oil, once-refined mil lb . .2002..	D	D
	1997..	49.9	14 211
31122127	Corn oil, fully-refined mil lb . .2002..	491.2	135 057
	1997..	169.0	51 957
31122309	Other crude oil mil lb . .2002..	P1 150.1	320 790
	1997..	Q1 160.9	280 519
31122311	Other once-refined oil mil lb . .2002..	452.6	105 577
	1997..	210.6	75 170
31122005	Other oil, fully-refined mil lb . .2002..	861.2	208 474
	1997..	Q245.5	87 675
31161115	Lard mil lb . .2002..	168.5	45 945
	1997..	191.2	48 020
31161105	Tallow and stearin, edible mil lb . .2002..	D	D
	1997..	154.6	35 472

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[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311225	Fats and oils refining and blending—Con.		
31491101	Textile bags (burlap, cotton, polypropylene, etc.)2002..	X	D
	1997..	X	N
001900A3	Bags (plastics, foil, and coated paper)2002..	X	2 666
	1997..	X	N
32222401	Bags (uncoated paper and multiwall)2002..	X	1 241
	1997..	X	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	D
	1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)2002..	X	62 035
	1997..	X	113 654
32610029	Plastics containers2002..	X	146 066
	1997..	X	282 188
32721301	Glass containers2002..	X	D
	1997..	X	D
33240000	Metal containers2002..	X	26 068
	1997..	X	13 224
00970099	All other materials and components, parts, containers, and supplies2002..	X	315 281
	1997..	X	1 259 628
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	895 401
	1997..	X	254 598
311230	Breakfast cereal manufacturing		
00900001	Total materials2002..	X	2 049 893
	1997..	X	2 303 772
11114003	Wheat mil bushels2002..	S	72 839
	1997..	910.9	72 079
11119913	Oats mil bushels2002..	817.2	92 673
	1997..	S	103 950
11115003	Corn mil bushels2002..	S	45 480
	1997..	D	D
11119911	Barley mil bushels2002..	.5	1 761
	1997..	S	9 606
11116000	Rice, rough mil lb2002..	372.3	45 549
	1997..	321.5	60 911
11110003	Other grains (excluding wheat, oats, corn, barley, and rice (rough)) mil bushels2002..	P6.5	13 085
	1997..	S	6 291
31121119	Corn grits 1,000 cwt2002..	3 723.7	38 486
	1997..	419.5	47 170
31121121	Corn meal and flakes 1,000 cwt2002..	D	D
	1997..	S	58 408
31121101	Wheat flour 1,000 cwt2002..	1 870.5	22 770
	1997..	S	38 350
31121133	Flour (excluding wheat) mil lb2002..	329.7	45 661
	1997..	P723.1	100 307
31121131	Prepared flour mixes mil lb2002..	D	D
	1997..	D	D
31131005	Sugar, cane and beet (sugar solids), excluding brown 1,000 s tons2002..	572.7	250 760
	1997..	608.9	339 926
31131009	Brown sugar, cane and beet (sugar solids) 1,000 s tons2002..	5.3	3 118
	1997..	45.3	19 516
31100015	Fats and oils mil lb2002..	78.8	24 117
	1997..	87.4	38 940
31142307	Raisins 1,000 cwt2002..	571.8	45 526
	1997..	S	69 555
31142313	Fruits, dried (excluding raisins) 1,000 cwt2002..	396.2	63 651
	1997..	S	23 401
31191103	Nutmeats, dried and dehydrated 1,000 cwt2002..	D	D
	1997..	31.0	11 389
11100031	Nuts and nutmeats, raw 1,000 cwt2002..	S	26 388
	1997..	S	40 234
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	139 082
	1997..	X	152 376
001900A3	Bags (plastics, foil, and coated paper)2002..	X	26 041
	1997..	X	74 363
32222401	Bags (uncoated paper and multiwall)2002..	X	D
	1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	396 777
	1997..	X	484 114
00970099	All other materials and components, parts, containers, and supplies2002..	X	475 340
	1997..	X	455 361
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	184 091
	1997..	X	47 954
311311	Sugarcane mills		
00900001	Total materials2002..	X	918 182
	1997..	X	830 507
11193000	Sugar cane 1,000 s tons2002..	920 409.6	560 605
	1997..	24 105.3	673 500
31131100	Raw cane sugar (converted to 96 percent basis) 1,000 s tons2002..	D	D
	1997..	N	N
11199100	Sugar beets 1,000 s tons2002..	D	D
	1997..	N	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	D
	1997..	X	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	D
	1997..	X	N
001900A3	Bags (plastics, foil, and coated paper)2002..	X	D
	1997..	X	N
32222401	Bags (uncoated paper and multiwall)2002..	X	D
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311311	Sugarcane mills—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	62 835
	.....2002..	X	115 633
	.....1997..	X	24 407
00971000	Materials, ingredients, containers, and supplies, nsk	X	41 374
	.....2002..	X	
	.....1997..	X	
311312	Cane sugar refining		
00900001	Total materials	X	2 025 923
	.....2002..	X	2 566 385
	.....1997..	X	
11193000	Sugar cane	D	D
	.....1,000 s tons	N	N
	.....2002..	S	1 715 024
	.....1997..	S	2 398 421
31131100	Raw cane sugar (converted to 96 percent basis)	5 972.2	
	.....1,000 s tons	D	D
	.....2002..	N	N
	.....1997..	N	
11199100	Sugar beets	D	D
	.....1,000 s tons	N	N
	.....2002..	X	7 077
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	.....2002..	X	
	.....1997..	X	
001900A1	Packaging paper and plastics film, coated and laminated	X	27 696
	.....2002..	X	69 230
	.....1997..	X	
001900A3	Bags (plastics, foil, and coated paper)	X	D
	.....2002..	X	D
	.....1997..	X	D
3222401	Bags (uncoated paper and multiwall)	X	D
	.....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	X	35 140
	.....2002..	X	57 233
	.....1997..	X	971
00971000	Materials, ingredients, containers, and supplies, nsk	X	2 488
	.....2002..	X	
	.....1997..	X	
311313	Beet sugar manufacturing		
00900001	Total materials	X	1 143 361
	.....2002..	X	1 561 961
	.....1997..	X	
11199100	Sugar beets	S	881 687
	.....1,000 s tons	S	1 312 943
	.....2002..	S	
	.....1997..	S	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	D
	.....2002..	X	D
	.....1997..	X	7 184
001900A1	Packaging paper and plastics film, coated and laminated	X	D
	.....2002..	X	7 911
	.....1997..	X	
001900A3	Bags (plastics, foil, and coated paper)	X	323
	.....2002..	X	3 465
	.....1997..	X	
3222401	Bags (uncoated paper and multiwall)	X	D
	.....2002..	X	10 615
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	36 676
	.....2002..	X	219 843
	.....1997..	X	177 825
00971000	Materials, ingredients, containers, and supplies, nsk	X	—
	.....2002..	X	
	.....1997..	X	
311320	Chocolate and confectionery manufacturing from cacao beans		
00900001	Total materials	X	1 974 322
	.....2002..	X	1 795 911
	.....1997..	X	
31122117	Crystalline fructose (dry fructose)	D	D
	.....mil lb .....	.7	348
	.....2002..	D	D
	.....1997..	D	D
11100003	Nuts, in shell (including peanuts)	D	D
	.....mil lb	D	D
	.....2002..	D	D
	.....1997..	D	D
31191101	Nutmeats (including peanuts), processed	D	D
	.....mil lb	D	D
	.....2002..	D	D
	.....1997..	D	D
11100029	Nutmeats, raw	D	D
	.....mil lb	p6.4	7 825
	.....2002..		
	.....1997..		
31150000	Milk and milk products	S	145 166
	.....mil gal	X	118 225
	.....2002..	D	D
	.....1997..	D	D
31122103	High fructose corn syrup (HFCS) (solids)	D	D
	.....mil lb	D	D
	.....2002..	D	D
	.....1997..	D	D
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight)	S	10 857
	.....mil lb	105.7	13 750
	.....2002..	S	6 183
	.....1997..	D	D
32510053	Sugar substitutes (mannitol, sorbitol, etc.)	S	229 737
	.....1,000 s tons	N	N
	.....2002..		
	.....1997..		
31131001	Sugar, cane and beet (sugar solids)	S	
	.....1,000 s tons	N	
	.....2002..		
	.....1997..		
31100021	Fats and oils (including shortening)	P116.1	43 455
	.....mil lb	986.9	43 972
	.....2002..	10.3	12 384
	.....1997..	199.9	193 009
31132003	Chocolate coatings	S	43 164
	.....1,000 s tons	S	61 148
	.....2002..	S	481 977
	.....1997..	S	410 602
31132005	Unsweetened chocolate (chocolate liquor)	408.7	
	.....1,000 s tons	69.1	74 686
	.....2002..	48.2	33 854
	.....1997..		
11130007	Cocoa beans	S	228 020
	.....1,000 s tons	P146.5	265 459
	.....2002..	X	25 295
	.....1997..	X	14 849
32510063	Essential oils and flavors, synthetic	X	D
	.....2002..	X	N
	.....1997..	X	N
31134003	Chewing gum base (including chicle)	X	D
	.....2002..	X	N
	.....1997..	X	N
00190045	Fruits, fresh and dried	D	D
	.....mil lb	N	N
	.....2002..	X	61 297
	.....1997..	X	69 787
001900A1	Packaging paper and plastics film, coated and laminated	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311320	Chocolate and confectionery manufacturing from cacao beans—Con.		
3329901	Aluminum foil packaging products, converted or rolls and sheets	2002.. X	D
		1997.. X	16 784
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	76 639
		1997.. X	68 586
32610029	Plastics containers	2002.. X	D
		1997.. X	D
32721301	Glass containers	2002.. X	411
		1997.. X	D
33243101	Metal cans, lids, and ends	2002.. X	12 126
		1997.. X	1 611
00970099	All other materials and components, parts, containers, and supplies	2002.. X	237 769
		1997.. X	276 633
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	130 353
		1997.. X	88 775
311330	Confectionery manufacturing from purchased chocolate		
00900001	Total materials	2002.. X	2 743 390
		1997.. X	2 855 034
31122117	Crystalline fructose (dry fructose)	mil lb. 2002.. P1.0	346
		1997.. 1.1	474
11100003	Nuts, in shell (including peanuts)	mil lb. 2002.. D	D
		1997.. D	D
31191101	Nutmeats (including peanuts), processed	mil lb. 2002.. S	169 477
		1997.. 158.3	165 851
11100029	Nutmeats, raw	mil lb. 2002.. 33.8	27 567
		1997.. 42.1	40 436
31150000	Milk and milk products	mil gal. 2002.. S	202 802
		1997.. X	293 549
31122103	High fructose corn syrup (HFCS) (solids)	mil lb. 2002.. D	D
		1997.. 41.1	6 781
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight)	mil lb. 2002.. S	60 702
		1997.. 402.0	53 949
32510053	Sugar substitutes (mannitol, sorbitol, etc.)	1,000 s tons. 2002.. 7.7	5 558
		1997.. 1.6	1 455
31131001	Sugar, cane and beet (sugar solids)	1,000 s tons. 2002.. S	247 410
		1997.. N	N
31100021	Fats and oils (including shortening)	mil lb. 2002.. S	22 542
		1997.. 59.5	32 171
31132003	Chocolate coatings	1,000 s tons. 2002.. 391.6	434 188
		1997.. 277.6	335 550
31132005	Unsweetened chocolate (chocolate liquor)	1,000 s tons. 2002.. D	D
		1997.. 88.6	138 566
11130007	Cocoa beans	1,000 s tons. 2002.. D	D
		1997.. D	D
31132007	Cocoa, pressed cake and powder	1,000 s tons. 2002.. S	19 893
		1997.. 20.1	14 845
31132009	Cocoa butter	mil lb. 2002.. P36.3	67 762
		1997.. D	D
32510063	Essential oils and flavors, synthetic	2002.. X	23 803
		1997.. X	19 754
31134003	Chewing gum base (including chicle)	2002.. X	4
		1997.. X	-
00190045	Fruits, fresh and dried	mil lb. 2002.. 16.6	16 895
		1997.. 8.9	12 116
001900A1	Packaging paper and plastics film, coated and laminated	2002.. X	246 835
		1997.. X	315 796
3329901	Aluminum foil packaging products, converted or rolls and sheets	2002.. X	42 340
		1997.. X	23 826
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	306 206
		1997.. X	191 175
32610029	Plastics containers	2002.. X	11 429
		1997.. X	18 481
32721301	Glass containers	2002.. X	1 429
		1997.. X	530
33243101	Metal cans, lids, and ends	2002.. X	4 483
		1997.. X	9 281
00970099	All other materials and components, parts, containers, and supplies	2002.. X	339 064
		1997.. X	535 903
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	312 521
		1997.. X	298 479
311340	Nonchocolate confectionery manufacturing		
00900001	Total materials	2002.. X	1 964 056
		1997.. X	1 808 403
31122117	Crystalline fructose (dry fructose)	mil lb. 2002.. S	918
		1997.. S	1 237
11100003	Nuts, in shell (including peanuts)	mil lb. 2002.. D	D
		1997.. P.7	890
31191101	Nutmeats (including peanuts), processed	mil lb. 2002.. P19.5	19 526
		1997.. 19.6	21 259
11100029	Nutmeats, raw	mil lb. 2002.. P8.3	10 831
		1997.. 13.7	14 527
31150000	Milk and milk products	mil gal. 2002.. S	31 771
		1997.. X	32 894
31122103	High fructose corn syrup (HFCS) (solids)	mil lb. 2002.. 166.0	21 291
		1997.. P171.7	19 480
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight)	mil lb. 2002.. P815.9	123 928
		1997.. 915.5	117 668

See footnotes at end of table.

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[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311340	Nonchocolate confectionery manufacturing—Con.		
32510053	Sugar substitutes (mannitol, sorbitol, etc.) 1,000 s tons 2002..	P67.7	94 558
	1997..	39.5	63 597
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons 2002..	376.4	194 222
	1997..	N	N
31100021	Fats and oils (including shortening) mil lb. 2002..	452.8	27 812
	1997..	42.8	21 237
31132003	Chocolate coatings 1,000 s tons 2002..	S	26 039
	1997..	N	N
31132005	Unsweetened chocolate (chocolate liquor) 1,000 s tons 2002..	2.1	3 626
	1997..	3.6	7 382
31132007	Cocoa, pressed cake and powder 1,000 s tons 2002..	S	3 621
	1997..	2.8	2 855
31132009	Cocoa butter mil lb. 2002..	D	D
	1997..	D	D
32510063	Essential oils and flavors, synthetic 2002..	X	114 313
	1997..	X	110 673
31134003	Chewing gum base (including chicle) 2002..	X	D
	1997..	X	D
00190045	Fruits, fresh and dried mil lb. 2002..	S	19 379
	1997..	P19.2	19 627
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	198 265
	1997..	X	196 083
33299901	Aluminum foil packaging products, converted or rolls and sheets 2002..	X	25 370
	1997..	X	30 492
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	176 263
	1997..	X	150 897
32610029	Plastics containers 2002..	X	11 009
	1997..	X	24 924
32721301	Glass containers 2002..	X	8 401
	1997..	X	9 789
33243101	Metal cans, lids, and ends 2002..	X	8 879
	1997..	X	5 303
00970099	All other materials and components, parts, containers, and supplies 2002..	X	386 306
	1997..	X	684 930
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	363 235
	1997..	X	153 399
311411	Frozen fruit, juice, and vegetable manufacturing		
00900001	Total materials 2002..	X	3 934 894
	1997..	X	4 429 724
32222401	Bags (uncoated paper and multiwall) 2002..	X	2 046
	1997..	X	3 055
11131000	Fresh oranges 1,000 s tons 2002..	S	577 379
	1997..	P3 215.2	616 193
11133100	Fresh apples 1,000 s tons 2002..	S	63 356
	1997..	270.8	63 619
11133300	Fresh strawberries 1,000 s tons 2002..	S	61 133
	1997..	P152.4	97 177
11130005	Other fresh fruits (excluding oranges, apples, and strawberries) 1,000 s tons 2002..	290.0	196 893
	1997..	723.0	199 237
11121901	Fresh green peas 1,000 s tons 2002..	S	36 917
	1997..	P166.5	40 750
11121100	White potatoes 1,000 s tons 2002..	S	542 148
	1997..	5 793.5	597 673
11121905	Fresh sweet corn 1,000 s tons 2002..	P558.8	73 653
	1997..	1 027.3	76 985
11121903	Fresh green (snap) and wax beans 1,000 s tons 2002..	S	52 190
	1997..	234.8	53 660
11100013	All other fresh vegetables (excluding green peas, white potatoes, sweet corn, and green and wax beans (snap)) 1,000 s tons 2002..	3 547.7	449 540
	1997..	2 229.8	584 537
31141101	Frozen fruits for, further processing mil lb. 2002..	P434.8	271 164
	1997..	282.0	261 641
31141103	Frozen vegetables for further processing mil lb. 2002..	637.5	250 705
	1997..	626.9	267 862
31151303	Natural and processed cheese (including imitation and substitutes) mil lb. 2002..	S	26 678
	1997..	25.2	39 420
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons 2002..	P15.8	8 175
	1997..	N	N
31121101	Wheat flour 1,000 cwt 2002..	P487.2	7 222
	1997..	268.5	6 272
31100019	Fats and oils, all types, purchased mil lb. 2002..	363.3	87 779
	1997..	582.6	173 611
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	119 528
	1997..	X	110 869
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	21 584
	1997..	X	27 357
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	139 093
	1997..	X	324 831
33243101	Metal cans, lids, and ends 2002..	X	50 644
	1997..	X	66 417
00970099	All other materials and components, parts, containers, and supplies 2002..	X	249 810
	1997..	X	536 358
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	647 257
	1997..	X	282 200

See footnotes at end of table.

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[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311412	Frozen specialty food manufacturing		
00900001	Total materials	X	5 199 000
	.....1997..	X	4 389 702
11133100	Fresh apples	1,000 s tons	819
	.....1997..	D	D
11130005	Other fresh fruits (excluding oranges, apples, and strawberries)	1,000 s tons	D
	.....1997..	D	D
11121901	Fresh green peas	1,000 s tons	D
	.....1997..	D	D
11121100	White potatoes	1,000 s tons	18 921
	.....1997..	78.2	13 161
	.....1997..	29.1	
11121905	Fresh sweet corn	1,000 s tons	D
	.....1997..	D	D
11121903	Fresh green (snap) and wax beans	1,000 s tons	D
	.....1997..	N	N
11100013	All other fresh vegetables (excluding green peas, white potatoes, sweet corn, and green and wax beans (snap))	1,000 s tons	223 085
	.....1997..	S	235 363
31141101	Frozen fruits for, further processing	mil lb	5 499
	.....1997..	6.7	29 343
31141103	Frozen vegetables for further processing	mil lb	193 022
	.....1997..	S	194 630
	.....1997..	427.4	
31151303	Natural and processed cheese (including imitation and substitutes)	mil lb	629 262
	.....1997..	513.3	652 055
31131001	Sugar, cane and beet (sugar solids)	1,000 s tons	18 967
	.....1997..	S	N
31121101	Wheat flour	1,000 cwt	185 300
	.....1997..	S	190 979
31100019	Fats and oils, all types, purchased	mil lb	113 188
	.....1997..	S	106 261
31142105	Tomato paste (24 percent NTSS equivalent)	mil lb	111 593
	.....1997..	S	102 400
	.....1997..	278.3	
00190032	Poultry (live, fresh, frozen, and prepared)	mil lb	330 660
	.....1997..	P238.7	345 246
31161000	Meat (fresh, frozen, or prepared)	mil lb	607 552
	.....1997..	S	651 146
	.....1997..	637.1	
33299901	Aluminum foil packaging products, converted or rolls and sheets		D
	.....1997..	X	23 931
001900A1	Packaging paper and plastics film, coated and laminated		186 829
	.....1997..	X	199 393
001900A3	Bags (plastics, foil, and coated paper)		60 955
	.....1997..	X	39 986
	.....1997..	X	
32222401	Bags (uncoated paper and multiwall)		270
	.....1997..	X	17 412
32221001	Paperboard containers, boxes, and corrugated paperboard		534 533
	.....1997..	X	397 876
33243101	Metal cans, lids, and ends		D
	.....1997..	X	6 271
00970099	All other materials and components, parts, containers, and supplies		1 474 671
	.....1997..	X	944 870
00971000	Materials, ingredients, containers, and supplies, nsk		448 905
	.....1997..	X	232 488
	.....1997..	X	
311421	Fruit and vegetable canning		
00900001	Total materials	X	8 762 790
	.....1997..	X	8 387 233
11131000	Fresh oranges	1,000 s tons	D
	.....1997..	D	D
11133100	Fresh apples	1,000 s tons	603 735
	.....1997..	3 270.5	200 900
11133901	Fresh apricots	1,000 s tons	249 173
	.....1997..	S	12 476
11133200	Fresh grapes	1,000 s tons	25 516
	.....1997..	979.3	34 008
	.....1997..	375.6	81 232
11133903	Fresh peaches	1,000 s tons	111 976
	.....1997..	414.6	143 777
11133905	Fresh pears	1,000 s tons	103 304
	.....1997..	599.9	102 158
11133907	Fresh pineapples	1,000 s tons	D
	.....1997..	D	D
11132000	Fresh grapefruit	1,000 s tons	62 467
	.....1997..	S	61 220
	.....1997..	343.1	
11130003	Other fresh fruits (excluding oranges, apples, apricots, grapes, peaches, pears, pineapples, and grapefruit)	1,000 s tons	216 663
	.....1997..	S	220 120
	.....1997..	391.2	
11121901	Fresh green peas	1,000 s tons	33 649
	.....1997..	127.9	61 498
11121100	White potatoes	1,000 s tons	11 424
	.....1997..	237.7	19 293
	.....1997..	100.9	
11100001	Vegetables, fresh (all other)	1,000 s tons	269 428
	.....1997..	P1 053.5	136 964
11121907	Fresh tomatoes	1,000 s tons	672 942
	.....1997..	P656.6	653 265
11121905	Fresh sweet corn	1,000 s tons	82 332
	.....1997..	S	134 632
	.....1997..	1 917.1	
11121903	Fresh green (snap) and wax beans	1,000 s tons	94 212
	.....1997..	539.6	94 528
31131001	Sugar, cane and beet (sugar solids)	1,000 s tons	51 089
	.....1997..	P564.0	N
31122103	High fructose corn syrup (HFCS) (solids)	mil lb	138 628
	.....1997..	N	125 530
31122117	Crystalline fructose (dry fructose)	mil lb	5 592
	.....1997..	S	12 370
	.....1997..	83.7	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311421	Fruit and vegetable canning—Con.		
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) mil lb. .2002..	365.9	47 235
	1997..	595.5	72 283
31161003	Meat (fresh, frozen, and prepared) mil lb. .2002..	S	33 252
	1997..	S	33 858
31161500	Poultry (dressed), purchased for processing (cooking, smoking, canning, raw-boning, freezing, and dehydrating) mil lb. .2002..	D	D
	1997..	D	D
31142311	Fruits and beans, dried 1,000 s tons .2002..	68.7	34 963
	1997..	28.0	23 133
31142103	Fruit juices, concentrated mil gal. .2002..	S	543 417
	1997..	129.2	604 316
31141105	Frozen fruits and vegetables, for further processing mil lb. .2002..	381.2	236 542
	1997..	677.1	381 832
31142105	Tomato paste (24 percent NTSS equivalent) mil lb. .2002..	P1 124.0	333 471
	1997..	654.5	221 026
31121101	Wheat flour 1,000 cwt. .2002..	D	D
	1997..	968.2	1 512
31100019	Fats and oils, all types, purchased mil lb. .2002..	232.3	59 047
	1997..	128.1	38 794
32310000	Printed labels2002..	X	100 295
	1997..	X	106 400
00190003	Flexible packaging materials2002..	X	109 720
	1997..	X	217 857
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	560 139
	1997..	X	329 451
33243101	Metal cans, lids, and ends2002..	X	1 073 032
	1997..	X	1 179 260
32721301	Glass containers2002..	X	366 966
	1997..	X	556 879
00970099	All other materials and components, parts, containers, and supplies2002..	X	1 309 438
	1997..	X	1 463 403
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	1 221 672
	1997..	X	393 122
311422	Specialty canning		
00900001	Total materials2002..	X	2 330 357
	1997..	X	2 587 740
11133100	Fresh apples 1,000 s tons .2002..	D	D
	1997..	83.6	15 095
11133903	Fresh peaches 1,000 s tons .2002..	D	D
	1997..	D	D
11133905	Fresh pears 1,000 s tons .2002..	D	D
	1997..	13.7	3 148
11130003	Other fresh fruits (excluding oranges, apples, apricots, grapes, peaches, pears, pineapples, and grapefruit) 1,000 s tons .2002..	D	D
	1997..	D	D
11121901	Fresh green peas 1,000 s tons .2002..	D	D
	1997..	11.9	5 075
11121100	White potatoes 1,000 s tons .2002..	D	D
	1997..	115.9	17 130
11100001	Vegetables, fresh (all other) 1,000 s tons .2002..	D	D
	1997..	366.1	119 087
11121907	Fresh tomatoes 1,000 s tons .2002..	D	D
	1997..	119.0	25 098
11121905	Fresh sweet corn 1,000 s tons .2002..	D	D
	1997..	D	D
11121903	Fresh green (snap) and wax beans 1,000 s tons .2002..	D	D
	1997..	38.3	8 535
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons .2002..	15.2	5 553
	1997..	N	N
31122103	High fructose corn syrup (HFCS) (solids) mil lb. .2002..	54.5	6 841
	1997..	115.0	14 814
31122117	Crystalline fructose (dry fructose) mil lb. .2002..	D	D
	1997..	D	D
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) mil lb. .2002..	D	D
	1997..	90.2	15 048
31161003	Meat (fresh, frozen, and prepared) mil lb. .2002..	170.3	186 929
	1997..	153.2	185 912
31161500	Poultry (dressed), purchased for processing (cooking, smoking, canning, raw-boning, freezing, and dehydrating) mil lb. .2002..	86.8	122 621
	1997..	84.2	128 002
31142311	Fruits and beans, dried 1,000 s tons .2002..	S	88 364
	1997..	212.0	119 881
31142103	Fruit juices, concentrated mil gal. .2002..	1.3	7 176
	1997..	D	D
31141105	Frozen fruits and vegetables, for further processing mil lb. .2002..	107.3	47 129
	1997..	167.6	68 729
31142105	Tomato paste (24 percent NTSS equivalent) mil lb. .2002..	P404.8	129 028
	1997..	338.7	139 781
31121101	Wheat flour 1,000 cwt. .2002..	1 086.6	13 418
	1997..	3 617.8	25 881
31100019	Fats and oils, all types, purchased mil lb. .2002..	45.9	12 495
	1997..	102.4	35 014
32310000	Printed labels2002..	X	57 884
	1997..	X	65 827
00190003	Flexible packaging materials2002..	X	12 666
	1997..	X	41 000

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311422	Specialty canning—Con.		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	71 784
	.....2002..	X	114 759
	.....1997..	X	536 662
33243101	Metal cans, lids, and ends	X	571 261
	.....2002..	X	92 072
	.....1997..	X	175 658
32721301	Glass containers	X	
	.....2002..	X	406 442
	.....1997..	X	513 779
00970099	All other materials and components, parts, containers, and supplies	X	421 116
	.....2002..	X	134 496
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
311423	Dried and dehydrated food manufacturing		
00900001	Total materials	X	1 928 059
	.....2002..	X	1 502 399
	.....1997..	X	D
31121113	Wheat flour, other (including farina)	D	D
	.....1,000 cwt. .2002..	D	20 934
	.....1997..	D	D
31121107	Wheat flour, semolina and durum	D	D
	.....1,000 cwt. .2002..	D	D
	.....1997..	D	D
32721301	Glass containers	X	D
	.....2002..	X	D
	.....1997..	X	D
31100019	Fats and oils, all types, purchased	62.0	21 073
	.....mil lb. .2002..	108.4	26 962
	.....1997..		
11100011	All other fresh vegetables (excluding cucumbers, corn, and white potatoes)	S	134 399
	.....1,000 s tons. .2002..	S	303 143
	.....1997..	S	86 959
31142309	Vegetables, dried (excluding potatoes and corn)	X	N
	.....2002..	X	103 098
	.....1997..	X	N
11121100	White potatoes	1 283.3	N
	.....1,000 s tons. .2002..	N	54 826
	.....1997..	N	54 406
11130001	Fresh fruits	451.8	D
	.....1,000 s tons. .2002..	247.5	349 377
	.....1997..	337.1	
31142301	Fruits, dried	D	
	.....1,000 s tons. .2002..	D	
	.....1997..	D	
31122101	Corn syrup	D	D
	.....mil lb. .2002..	D	D
	.....1997..	D	
31131001	Sugar, cane and beet (sugar solids)	9.2	5 352
	.....1,000 s tons. .2002..	N	N
	.....1997..	N	
001900A1	Packaging paper and plastics film, coated and laminated	X	37 463
	.....2002..	X	81 822
	.....1997..	X	20 398
001900A3	Bags (plastics, foil, and coated paper)	X	25 215
	.....2002..	X	119 137
	.....1997..	X	64 905
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	.....2002..	X	440 423
	.....1997..	X	485 452
00970099	All other materials and components, parts, containers, and supplies	X	771 503
	.....2002..	X	74 883
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
311511	Fluid milk manufacturing		
00900001	Total materials	X	14 448 996
	.....2002..	X	13 694 229
	.....1997..	X	S
11212000	Whole milk	657 816.8	8 790 146
	.....mil cwt. .2002..	S	676 082
	.....1997..	S	642 487
31151101	Fluid skim milk	S	393 210
	.....mil cwt. .2002..	52.4	390 102
	.....1997..	5.5	50 176
31151103	Cream	6.4	10 302
	.....mil cwt. .2002..	32.2	
	.....1997..	S	
31151200	Butter	S	
	.....mil lb. .2002..	S	109 434
	.....1997..	S	90 553
31151401	Condensed and evaporated milk	177.6	115 518
	.....mil lb. .2002..	121.0	153 852
	.....1997..	149.3	8 151
31151301	Natural cheese (excluding cottage cheese)	S	8 661
	.....mil lb. .2002..	5.9	43 049
	.....1997..	S	40 123
31152001	Ice cream mixes (excluding lowfat and nonfat)	S	D
	.....mil gal. .2002..	16.2	D
	.....1997..	D	1 035
31152003	Sherbet mix	D	
	.....mil gal. .2002..	.7	
	.....1997..		
31152005	Ice cream mix, lowfat	S	13 213
	.....mil gal. .2002..	S	21 836
	.....1997..	11.4	D
31152009	Ice cream mix, nonfat	D	D
	.....mil gal. .2002..	D	D
	.....1997..	D	D
31152007	Yogurt mix	D	D
	.....mil gal. .2002..	S	10 930
	.....1997..	S	
31100019	Fats and oils, all types, purchased	61.6	22 144
	.....mil lb. .2002..	60.4	20 024
	.....1997..	S	105 551
31122103	High fructose corn syrup (HFCS) (solids)	S	103 406
	.....mil lb. .2002..	908.1	
	.....1997..		
31122117	Crystalline fructose (dry fructose)	S	4 559
	.....mil lb. .2002..	17.0	4 073
	.....1997..		
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight)	S	24 582
	.....mil lb. .2002..	136.0	23 785
	.....1997..	258.2	108 167
31131001	Sugar, cane and beet (sugar solids)	N	N
	.....1,000 s tons. .2002..	N	
	.....1997..	N	
31151403	Whey (liquid, concentrated, and dried) and modified whey products	S	62 274
	.....mil lb. .2002..	244.0	64 544
	.....1997..	8.6	13 910
00190035	Casein and caseinates	D	D
	.....mil lb. .2002..	D	
	.....1997..	D	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311511	Fluid milk manufacturing—Con.		
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb. .2002..	S	58 045
	1997..	961.8	54 636
00190036	Flavorings (natural, imitation, etc.), excluding chocolate2002..	X	346 206
	1997..	X	334 655
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	203 128
	1997..	X	195 813
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	209 749
	1997..	X	247 045
001900A3	Bags (plastics, foil, and coated paper)2002..	X	27 287
	1997..	X	24 757
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes2002..	X	110 926
	1997..	X	49 192
32721301	Glass containers2002..	X	11 611
	1997..	X	2 974
32610028	Plastics containers (excluding bags)2002..	X	517 438
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	515 648
	1997..	X	495 779
33243101	Metal cans, lids, and ends2002..	X	35 172
	1997..	X	17 761
00970099	All other materials and components, parts, containers, and supplies2002..	X	906 600
	1997..	X	1 230 529
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	760 810
	1997..	X	656 052
311512	Creamery butter manufacturing		
00900001	Total materials2002..	X	1 336 981
	1997..	X	1 086 005
11212000	Whole milk mil cwt. .2002..	S	277 616
	1997..	S	207 621
31151103	Cream mil cwt. .2002..	S	652 265
	1997..	S	630 598
31151200	Butter mil lb. .2002..	P209.3	234 789
	1997..	9110.2	127 855
31151401	Condensed and evaporated milk mil lb. .2002..	S	24 849
	1997..	D	D
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	17 718
	1997..	X	16 689
32610028	Plastics containers (excluding bags)2002..	X	1 772
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	19 249
	1997..	X	17 150
00970099	All other materials and components, parts, containers, and supplies2002..	X	99 614
	1997..	X	78 344
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	9 109
	1997..	X	6 379
311513	Cheese manufacturing		
00900001	Total materials2002..	X	15 948 674
	1997..	X	14 954 835
11212000	Whole milk mil cwt. .2002..	S	8 364 376
	1997..	9599.5	8 200 658
31151101	Fluid skim milk mil cwt. .2002..	S	107 099
	1997..	S	79 656
31151103	Cream mil cwt. .2002..	4.2	357 529
	1997..	912.7	352 642
31151200	Butter mil lb. .2002..	S	45 865
	1997..	S	43 506
31151401	Condensed and evaporated milk mil lb. .2002..	P223.0	73 898
	1997..	S	62 619
31151407	Dry milk mil lb. .2002..	S	232 549
	1997..	S	334 242
31151301	Natural cheese (excluding cottage cheese) mil lb. .2002..	P3 948.1	4 021 033
	1997..	P2 698.0	3 862 226
31100019	Fats and oils, all types, purchased mil lb. .2002..	P220.7	89 097
	1997..	S	84 931
31122103	High fructose corn syrup (HFCS) (solids) mil lb. .2002..	S	4 261
	1997..	24.3	3 646
31122117	Crystalline fructose (dry fructose) mil lb. .2002..	D	D
	1997..	D	D
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) mil lb. .2002..	S	3 636
	1997..	P4.9	1 233
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons. .2002..	D	D
	1997..	N	N
31151403	Whey (liquid, concentrated, and dried) and modified whey products mil lb. .2002..	9510.2	156 503
	1997..	9579.6	148 594
00190035	Casein and caseinates mil lb. .2002..	S	108 828
	1997..	P59.5	136 576
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb. .2002..	D	D
	1997..	D	D
00190036	Flavorings (natural, imitation, etc.), excluding chocolate2002..	X	120 141
	1997..	X	142 866
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	6 504
	1997..	X	D
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	181 058
	1997..	X	178 023
001900A3	Bags (plastics, foil, and coated paper)2002..	X	97 947

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311513	Cheese manufacturing—Con.		
	1997..	X	95 167
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	X 48 083
	1997..	X	19 771
32721301	Glass containers	2002..	X 16 414
	1997..	X	19 642
32610028	Plastics containers (excluding bags)	2002..	X 52 705
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X 203 964
	1997..	X	207 287
33243101	Metal cans, lids, and ends	2002..	X 15 133
	1997..	X	31 825
00970099	All other materials and components, parts, containers, and supplies	2002..	X 878 440
	1997..	X	658 237
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 759 262
	1997..	X	287 056
311514	Dry, condensed, and evaporated dairy product manufacturing		
00900001	Total materials	2002..	X 4 812 639
	1997..	X	4 762 474
11212000	Whole milk	2002..	S 1 971 476
	1997..	148.2	S 1 982 391
31151101	Fluid skim milk	2002..	S 13 857
	1997..	S	17 992
31151103	Cream	2002..	2.3 152 836
	1997..	3.0	141 379
31151200	Butter	2002..	S 79 980
	1997..	S	98 523
31151401	Condensed and evaporated milk	2002..	S 92 099
	1997..	P220.0	144 889
31151407	Dry milk	2002..	S 243 798
	1997..	324.5	278 401
31151301	Natural cheese (excluding cottage cheese)	2002..	D D
	1997..	221.6	107 353
31100019	Fats and oils, all types, purchased	2002..	367.0 105 377
	1997..	243.5	90 857
31122103	High fructose corn syrup (HFCS) (solids)	2002..	517.1 57 255
	1997..	309.8	43 822
31122117	Crystalline fructose (dry fructose)	2002..	D D
	1997..	P29.0	8 069
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight)	2002..	306.7 45 812
	1997..	P268.2	43 011
31131001	Sugar, cane and beet (sugar solids)	2002..	152.5 67 799
	1997..	N	N
31151403	Whey (liquid, concentrated, and dried) and modified whey products	2002..	530.5 141 698
	1997..	1 404.0	113 898
00190035	Casein and caseinates	2002..	P103.3 210 190
	1997..	P125.1	244 355
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.)	2002..	23.5 21 446
	1997..	24.6	16 500
00190036	Flavorings (natural, imitation, etc.), excluding chocolate	2002..	X 74 449
	1997..	X	57 953
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X D
	1997..	X	7 189
001900A1	Packaging paper and plastics film, coated and laminated	2002..	X 57 923
	1997..	X	58 473
001900A3	Bags (plastics, foil, and coated paper)	2002..	X 38 317
	1997..	X	36 090
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	X 29 697
	1997..	X	18 511
32721301	Glass containers	2002..	X 23 268
	1997..	X	24 675
32610028	Plastics containers (excluding bags)	2002..	X 53 975
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X 142 355
	1997..	X	90 163
33243101	Metal cans, lids, and ends	2002..	X 164 494
	1997..	X	172 190
00970099	All other materials and components, parts, containers, and supplies	2002..	X 667 192
	1997..	X	807 144
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 194 848
	1997..	X	158 646
311520	Ice cream and frozen dessert manufacturing		
00900001	Total materials	2002..	X 3 245 788
	1997..	X	2 813 696
11212000	Whole milk	2002..	S 310 162
	1997..	117.6	S 248 770
31151101	Fluid skim milk	2002..	S 71 812
	1997..	S	61 389
31151103	Cream	2002..	P6.3 445 432
	1997..	9.4	434 730
31151200	Butter	2002..	S 10 089
	1997..	S	7 924

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311520	Ice cream and frozen dessert manufacturing—Con.		
31151401	Condensed and evaporated milk mil lb. .2002..	S	127 571
	1997..	174.1	132 673
31151407	Dry milk mil lb. .2002..	S	51 765
	1997..	S	64 246
31152001	Ice cream mixes (excluding lowfat and nonfat) mil gal. .2002..	109.4	343 116
	1997..	*37.8	107 222
31152003	Sherbet mix mil gal. .2002..	S	39 828
	1997..	S	18 758
31152005	Ice cream mix, lowfat mil gal. .2002..	*16.0	41 875
	1997..	S	7 486
31152009	Ice cream mix, nonfat mil gal. .2002..	S	6 669
	1997..	1.8	4 994
31152007	Yogurt mix mil gal. .2002..	S	12 948
	1997..	S	13 182
31100019	Fats and oils, all types, purchased mil lb. .2002..	9.6	4 535
	1997..	D	D
31122103	High fructose corn syrup (HFCS) (solids) mil lb. .2002..	S	33 745
	1997..	295.6	37 547
31122117	Crystalline fructose (dry fructose) mil lb. .2002..	D	D
	1997..	D	D
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) mil lb. .2002..	S	40 127
	1997..	330.9	47 182
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons. .2002..	*169.3	79 532
	1997..	N	N
31151403	Whey (liquid, concentrated, and dried) and modified whey products mil lb. .2002..	S	11 549
	1997..	S	13 675
00190035	Casein and caseinates mil lb. .2002..	D	D
	1997..	S	1 943
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb. .2002..	134.1	104 763
	1997..	*120.3	101 650
00190036	Flavorings (natural, imitation, etc.), excluding chocolate2002..	X	277 903
	1997..	X	268 908
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	15 080
	1997..	X	24 773
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	138 785
	1997..	X	153 920
001900A3	Bags (plastics, foil, and coated paper)2002..	X	6 795
	1997..	X	12 767
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes2002..	X	5 466
	1997..	X	4 454
32610028	Plastics containers (excluding bags)2002..	X	36 715
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	412 784
	1997..	X	342 526
00970099	All other materials and components, parts, containers, and supplies2002..	X	358 440
	1997..	X	414 603
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	255 391
	1997..	X	284 564
311611	Animal (except poultry) slaughtering		
00900001	Total materials2002..	X	44 221 922
	1997..	X	42 712 671
11211003	Cattle slaughtered (number of head)thousands .2002..	32 561.3	25 032 912
	1997..	30 290.5	22 722 567
11211001	Cattle slaughtered (live weight) mil lb. .2002..	X	X
	1997..	X	X
11211007	Calves slaughtered (number of head)thousands .2002..	318.8	163 447
	1997..	900.3	360 461
11211005	Calves slaughtered (live weight) mil lb. .2002..	X	X
	1997..	X	X
11221003	Hogs slaughtered (number of head)thousands .2002..	86 172.5	8 665 162
	1997..	D	D
11221001	Hogs slaughtered (live weight) mil lb. .2002..	21 862.8	X
	1997..	D	X
11241005	Sheep and lambs slaughtered (number of head)thousands .2002..	1 882.4	197 517
	1997..	D	D
11241003	Sheep and lambs slaughtered (live weight) mil lb. .2002..	X	X
	1997..	D	X
31161107	Fresh and frozen beef mil lb. .2002..	*2 748.5	2 621 684
	1997..	1 851.1	1 524 582
31161109	Fresh and frozen veal mil lb. .2002..	S	95 369
	1997..	S	41 142
31161113	Fresh and frozen pork mil lb. .2002..	S	1 387 662
	1997..	*667.0	584 868
31161111	Other fresh and frozen red meats mil lb. .2002..	*7.0	9 220
	1997..	S	109 432
31161101	Meat materials for sausage and canning not separable by species mil lb. .2002..	*22.3	13 252
	1997..	*86.5	42 443
31161117	Pork, processed (cured, smoked, etc.) mil lb. .2002..	D	D
	1997..	S	9 701
31161103	Other meat materials (cured beef, cured lamb, etc.), purchased mil lb. .2002..	2.8	4 083
	1997..	D	D
00190042	Poultry (live, fresh, frozen, and prepared)2002..	X	212 988
	1997..	X	N
31161119	Hides, skins, and pelts2002..	X	231 998
	1997..	X	D
31194201	Spices and curing materials2002..	X	79 841
	1997..	X	123 672

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311611	Animal (except poultry) slaughtering—Con.		
31161200	Animal and collagen casings	X	36 344
	1997..	X	15 883
001900A1	Packaging paper and plastics film, coated and laminated	X	150 404
	1997..	X	784 422
32221001	Paperboard containers, boxes, and corrugated paperboard	X	542 175
	1997..	X	420 026
32610023	Synthetic casings (including cellulosic and fibrous reinforced)	X	15 847
	1997..	X	177 164
001900A3	Bags (plastics, foil, and coated paper)	X	303 500
	1997..	X	N
32222401	Bags (uncoated paper and multiwall)	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	712 462
	1997..	X	1 449 793
00971000	Materials, ingredients, containers, and supplies, nsk	X	3 694 276
	1997..	X	2 182 914
311612	Meat processed from carcasses		
00900001	Total materials	X	14 336 731
	1997..	X	14 167 906
11211003	Cattle slaughtered (number of head)thousands	D	D
	1997..	5.2	1 356
11211001	Cattle slaughtered (live weight) mil lb	280.7	X
	1997..	D	D
11221003	Hogs slaughtered (number of head)thousands	D	D
	1997..	266.7	29 536
11221001	Hogs slaughtered (live weight) mil lb	22 078.3	X
	1997..	51 537.8	X
11241005	Sheep and lambs slaughtered (number of head)thousands	D	D
	1997..	D	D
11241003	Sheep and lambs slaughtered (live weight) mil lb	1.6	X
	1997..	180.5	X
31161107	Fresh and frozen beef mil lb	S	4 275 892
	1997..	4 183.0	4 430 259
31161109	Fresh and frozen veal mil lb	143.0	132 598
	1997..	929.1	54 293
31161113	Fresh and frozen pork mil lb	94 590.2	3 269 307
	1997..	P4 433.2	3 922 321
31161111	Other fresh and frozen red meats mil lb	P224.8	261 482
	1997..	144.0	145 615
31161101	Meat materials for sausage and canning not separable by species mil lb	S	199 258
	1997..	147.4	333 141
31161117	Pork, processed (cured, smoked, etc.) mil lb	S	189 298
	1997..	313.0	366 003
31161103	Other meat materials (cured beef, cured lamb, etc.), purchased mil lb	S	108 646
	1997..	96.0	116 692
00190042	Poultry (live, fresh, frozen, and prepared)	X	305 596
	1997..	X	N
31161119	Hides, skins, and pelts	X	D
	1997..	X	D
31194201	Spices and curing materials	X	300 123
	1997..	X	435 159
31161200	Animal and collagen casings	X	107 644
	1997..	X	88 157
001900A1	Packaging paper and plastics film, coated and laminated	X	322 082
	1997..	X	349 124
32221001	Paperboard containers, boxes, and corrugated paperboard	X	352 197
	1997..	X	307 916
32610023	Synthetic casings (including cellulosic and fibrous reinforced)	X	118 764
	1997..	X	201 849
001900A3	Bags (plastics, foil, and coated paper)	X	101 726
	1997..	X	N
32222401	Bags (uncoated paper and multiwall)	X	4 728
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	859 155
	1997..	X	1 072 571
00971000	Materials, ingredients, containers, and supplies, nsk	X	3 320 563
	1997..	X	2 292 861
311615	Poultry processing		
00900001	Total materials	X	17 436 503
	1997..	X	18 610 083
11232001	Young chickens slaughtered (including commercial broilers) mil lb	P32 639.1	8 696 868
	1997..	P27 436.0	9 035 445
11232003	Hens (or fowl) and other chickens slaughtered mil lb	P2 347.5	280 546
	1997..	91 394.8	188 263
11233000	Turkeys slaughtered mil lb	4 791.1	1 699 120
	1997..	5 829.3	2 541 364
11239000	Other poultry and small game slaughtered (ducks, geese, rabbits, etc.)	X	11 640
	1997..	X	17 523
31161500	Poultry (dressed), purchased for processing (cooking, smoking, canning, raw-boning, freezing, and dehydrating) mil lb	P3 108.6	2 935 195
	1997..	7 114.5	3 361 556
11231005	Shell eggs 1,000 cases (30 doz)	375.5	18 165
	1997..	S	12 614
32221001	Paperboard containers, boxes, and corrugated paperboard	X	466 965
	1997..	X	493 445
001900A1	Packaging paper and plastics film, coated and laminated	X	311 102
	1997..	X	237 995
001900A3	Bags (plastics, foil, and coated paper)	X	196 047

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311615	Poultry processing—Con.		
33243101	Metal cans, lids, and ends	1997.. X	131 639
		2002.. X	19 037
		1997.. X	20 424
00970099	All other materials and components, parts, containers, and supplies	2002.. X	1 364 813
		1997.. X	1 777 032
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	1 437 005
		1997.. X	792 783
311711	Seafood canning		
00900001	Total materials	2002.. X	751 687
		1997.. X	487 287
11411101	Alaska pollack	1,000 s tons.. 2002.. D	D
		1997.. —	—
11411103	Tuna	1,000 s tons.. 2002.. D	D
		1997.. D	D
11411105	Salmon	1,000 s tons.. 2002.. 81.8	102 413
		1997.. 75.5	108 431
11411107	Sardines	1,000 s tons.. 2002.. D	D
		1997.. D	D
11411109	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting)	1,000 s tons.. 2002.. 913.3	31 889
		1997.. S	3 291
11411111	Flounder	2002.. X	D
		1997.. X	—
11411113	Other fin fish	2002.. X	4 671
		1997.. X	34 822
11411201	Shrimp	2002.. X	D
		1997.. X	30 124
11411203	Crabs	2002.. X	D
		1997.. X	535
11411205	Oysters	2002.. X	D
		1997.. X	D
11411207	Clams	2002.. X	74 466
		1997.. X	43 411
11411209	Other shellfish	2002.. X	1 557
		1997.. X	D
31171201	Surimi	1,000 s tons.. 2002.. S	2 761
		1997.. D	D
31171203	Frozen fish blocks	1,000 s tons.. 2002.. D	D
		1997.. D	D
31100019	Fats and oils, all types, purchased	mil lb.. 2002.. S	1 280
		1997.. S	6 834
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	13 691
		1997.. X	10 171
001900A1	Packaging paper and plastics film, coated and laminated	2002.. X	6 381
		1997.. X	4 863
33243101	Metal cans, lids, and ends	2002.. X	43 875
		1997.. X	56 324
32610029	Plastics containers	2002.. X	1 486
		1997.. N	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	31 459
		1997.. X	29 986
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	173 706
		1997.. X	60 908
311712	Fresh and frozen seafood processing		
00900001	Total materials	2002.. X	4 008 347
		1997.. X	3 392 528
11411101	Alaska pollack	1,000 s tons.. 2002.. 9417.2	103 231
		1997.. 176.8	257 849
11411103	Tuna	1,000 s tons.. 2002.. 95.4	13 994
		1997.. 9.0	33 395
11411105	Salmon	1,000 s tons.. 2002.. 80.4	120 531
		1997.. P135.2	256 797
11411107	Sardines	1,000 s tons.. 2002.. D	D
		1997.. D	D
11411109	Ground fish (cod, cusk, haddock, hake, Atlantic Ocean perch, Atlantic pollock, and whiting)	1,000 s tons.. 2002.. 999.1	234 551
		1997.. P220.7	238 225
11411111	Flounder	2002.. X	21 218
		1997.. X	22 883
11411113	Other fin fish	2002.. X	149 596
		1997.. X	339 837
11411201	Shrimp	2002.. X	509 815
		1997.. X	586 306
11411203	Crabs	2002.. X	108 843
		1997.. X	207 482
11411205	Oysters	2002.. X	33 442
		1997.. X	27 849
11411207	Clams	2002.. X	56 227
		1997.. X	46 618
11411209	Other shellfish	2002.. X	98 282
		1997.. X	58 749
31171201	Surimi	1,000 s tons.. 2002.. P40.1	70 951
		1997.. 934.9	80 114
31171203	Frozen fish blocks	1,000 s tons.. 2002.. P56.4	128 731
		1997.. P81.3	163 409
31100019	Fats and oils, all types, purchased	mil lb.. 2002.. S	12 975
		1997.. D	D
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	83 725
		1997.. X	101 167
001900A1	Packaging paper and plastics film, coated and laminated	2002.. X	34 407
		1997.. X	36 834

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311712	Fresh and frozen seafood processing—Con.		
33243101	Metal cans, lids, and ends	2002.. X	14 242
		1997.. X	12 654
32610029	Plastics containers	2002.. X	D
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	345 501
		1997.. X	320 607
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	1 857 713
		1997.. X	579 944
311812	Commercial bakeries		
00900001	Total materials	2002.. X	5 282 445
		1997.. X	5 559 851
31121111	Wheat flour, white bread-type (excluding prepared mixes)	mil lb ..2002.. P9 377.5	1 116 384
		1997.. P9 655.9	1 271 950
31121109	Wheat flour, cake-type (excluding prepared mixes)	mil lb ..2002.. P643.7	85 922
		1997.. 548.1	77 386
31121103	Wheat flour, cookie and cracker-type (excluding prepared mixes)	mil lb ..2002.. S	25 316
		1997.. P182.2	26 232
31122121	Wheat gluten	mil lb ..2002.. P320.7	107 011
		1997.. 333.9	102 791
31121105	Wheat flour, other (including whole wheat, and clear flour), excluding prepared mixes	mil lb ..2002.. P761.4	108 526
		1997.. P776.4	118 932
31100005	Prepared doughnut mixes, cake and yeast types	mil lb ..2002.. S	103 991
		1997.. P235.7	81 866
31100007	Prepared bread mixes, including franchise mixes	mil lb ..2002.. P158.4	76 006
		1997.. P93.5	40 337
31100009	Prepared cake mixes	mil lb ..2002.. P35.5	21 486
		1997.. P65.3	24 615
31100011	Other prepared mixes, including sweetgoods	mil lb ..2002.. 26.9	15 023
		1997.. P92.9	37 444
31131001	Sugar, cane and beet (sugar solids)	1,000 s tons ..2002.. 604.2	245 297
		1997.. 608.3	239 283
31122111	Glucose syrup (corn syrup), conventional and regular (solids)	mil lb ..2002.. 289.7	47 371
		1997.. 318.7	49 634
31122103	High fructose corn syrup (HFCS) (solids)	mil lb ..2002.. P963.0	119 879
		1997.. 761.6	106 091
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids)	mil lb ..2002.. 267.0	86 896
		1997.. 250.8	70 623
32510057	Artificial sweeteners (solids)	mil lb ..2002.. 3.9	6 723
		1997.. P3.8	2 015
31120011	Shortening, vegetable (100 percent)	mil lb ..2002.. P555.9	165 559
		1997.. 684.2	199 446
31100023	Shortening, animal and blends of animal and vegetable	mil lb ..2002.. 71.3	18 438
		1997.. 69.6	22 527
31161115	Lard	mil lb ..2002.. 25.9	7 605
		1997.. P6.8	2 567
31100025	Fats and oils, other (cooking oils, butter, margarine, puff paste, etc.)	mil lb ..2002.. 193.5	79 884
		1997.. 269.7	108 827
31199903	Compressed yeast	mil lb ..2002.. P439.7	120 533
		1997.. 331.9	99 726
31199905	Active dry yeast	mil lb ..2002.. P37.4	27 081
		1997.. P114.0	43 220
31141107	Frozen fruits	mil lb ..2002.. 49.7	31 483
		1997.. 72.7	54 149
31142305	Fruits and nuts, dried (including raisins)	1,000 cwt ..2002.. P483.1	70 960
		1997.. .5	104 406
31134001	Glace, candied and crystallized fruits, fruit peel, nuts, and other vegetable substances	mil lb ..2002.. P13.5	10 379
		1997.. 11.8	10 191
31142101	Jams, jellies and preserves, including fruit butter and maraschino cherries	mil lb ..2002.. S	11 691
		1997.. 39.2	25 859
31199901	Eggs (liquid, dried, and frozen) (dry weight equivalent)	mil lb ..2002.. P85.3	71 630
		1997.. 89.3	77 916
31151305	Processed cheese	mil lb ..2002.. 10.7	13 369
		1997.. 34.6	26 152
31151405	Milk and milk replacers (dry milk, dry whey, blends, soy whey, etc.)	mil lb ..2002.. P60.7	47 184
		1997.. 83.9	53 078
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.)	mil lb ..2002.. 72.9	74 552
		1997.. 100.5	51 032
33299901	Aluminum foil packaging products, converted or rolls and sheets	2002.. X	21 780
		1997.. X	27 679
001900A1	Packaging paper and plastics film, coated and laminated	2002.. X	215 024
		1997.. X	166 102
001900A3	Bags (plastics, foil, and coated paper)	2002.. X	240 874
		1997.. X	275 143
32222401	Bags (uncoated paper and multiwall)	2002.. X	17 392
		1997.. X	32 293
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	298 415
		1997.. X	259 414
00970099	All other materials and components, parts, containers, and supplies	2002.. X	700 584
		1997.. X	875 017
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	872 197
		1997.. X	795 908

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311813	Frozen cakes, pies, and other pastries manufacturing		
00900001	Total materials	X	1 721 905
	.....2002..	X	1 046 048
	.....1997..		
31121111	Wheat flour, white bread-type (excluding prepared mixes)	469.0	50 161
	..... mil lb..2002..	239.3	31 142
	.....1997..		
31121109	Wheat flour, cake-type (excluding prepared mixes)	247.0	34 465
	..... mil lb..2002..	105.4	16 779
	.....1997..		
31121103	Wheat flour, cookie and cracker-type (excluding prepared mixes)	120.6	13 675
	..... mil lb..2002..	21.4	4 093
	.....1997..		
31122121	Wheat gluten	P17.2	8 156
	..... mil lb..2002..	8.1	1 507
	.....1997..		
31121105	Wheat flour, other (including whole wheat, and clear flour), excluding prepared mixes	S	8 812
	..... mil lb..2002..	117.2	14 030
	.....1997..		
31100005	Prepared doughnut mixes, cake and yeast types	S	28 838
	..... mil lb..2002..	54.2	23 073
	.....1997..		
31100007	Prepared bread mixes, including franchise mixes	S	2 850
	..... mil lb..2002..	.1	84
	.....1997..		
31100009	Prepared cake mixes	S	56 504
	..... mil lb..2002..	25.1	11 304
	.....1997..		
31100011	Other prepared mixes, including sweetgoods	Q43.2	22 442
	..... mil lb..2002..	28.2	12 205
	.....1997..		
31131001	Sugar, cane and beet (sugar solids)	P271.0	111 820
	..... 1,000 s tons..2002..	S	55 231
	.....1997..		
31122111	Glucose syrup (corn syrup), conventional and regular (solids)	P41.1	7 008
	..... mil lb..2002..	22.1	3 532
	.....1997..		
31122103	High fructose corn syrup (HFCS) (solids)	P77.1	9 247
	..... mil lb..2002..	42.3	6 877
	.....1997..		
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids)	32.1	16 121
	..... mil lb..2002..	44.2	9 364
	.....1997..		
32510057	Artificial sweeteners (solids)	4.3	5 221
	..... mil lb..2002..	.2	710
	.....1997..		
31120011	Shortening, vegetable (100 percent)	180.3	54 392
	..... mil lb..2002..	140.6	43 732
	.....1997..		
31100023	Shortening, animal and blends of animal and vegetable	Q26.4	7 642
	..... mil lb..2002..	6.4	2 382
	.....1997..		
31161115	Lard	S	2 469
	..... mil lb..2002..	5.4	1 804
	.....1997..		
31100025	Fats and oils, other (cooking oils, butter, margarine, puff paste, etc.)	134.7	55 537
	..... mil lb..2002..	57.6	28 291
	.....1997..		
31199903	Compressed yeast	20.6	6 389
	..... mil lb..2002..	6.8	3 747
	.....1997..		
31199905	Active dry yeast	5.3	3 517
	..... mil lb..2002..	1.0	1 806
	.....1997..		
31141107	Frozen fruits	200.2	114 124
	..... mil lb..2002..	178.8	97 691
	.....1997..		
31142305	Fruits and nuts, dried (including raisins)	Q221.1	41 052
	..... 1,000 cwt..2002..	S	28 009
	.....1997..		
31134001	Glace, candied and crystallized fruits, fruit peel, nuts, and other vegetable substances	P14.9	8 271
	..... mil lb..2002..	D	D
	.....1997..		
31142101	Jams, jellies and preserves, including fruit butter and maraschino cherries	Q15.6	10 618
	..... mil lb..2002..	S	4 385
	.....1997..		
31199901	Eggs (liquid, dried, and frozen) (dry weight equivalent)	P105.4	78 121
	..... mil lb..2002..	S	40 504
	.....1997..		
31151305	Processed cheese	Q40.3	49 715
	..... mil lb..2002..	31.8	34 768
	.....1997..		
31151405	Milk and milk replacers (dry milk, dry whey, blends, soy whey, etc.)	53.3	40 144
	..... mil lb..2002..	S	28 896
	.....1997..		
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.)	S	53 524
	..... mil lb..2002..	106.5	20 057
	.....1997..		
33299901	Aluminum foil packaging products, converted or rolls and sheets	X	29 003
	.....2002..	X	39 045
	.....1997..		
001900A1	Packaging paper and plastics film, coated and laminated	X	64 105
	.....2002..	X	32 857
	.....1997..		
001900A3	Bags (plastics, foil, and coated paper)	X	23 450
	.....2002..	X	10 035
	.....1997..		
32222401	Bags (uncoated paper and multiwall)	X	1 161
	.....2002..	X	D
	.....1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	160 071
	.....2002..	X	115 625
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	205 593
	.....2002..	X	214 443
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	337 687
	.....2002..	X	92 996
	.....1997..		
311821	Cookie and cracker manufacturing		
00900001	Total materials	X	2 559 093
	.....2002..	X	2 684 927
	.....1997..		
11114003	Wheat	S	15 254
	..... mil bushels..2002..	N	N
	.....1997..		
11119913	Oats	20.3	4 259
	..... mil bushels..2002..	N	N
	.....1997..		
11115003	Corn	D	D
	..... mil bushels..2002..	N	N
	.....1997..		
11119911	Barley	D	D
	..... mil bushels..2002..	N	N
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311821	Cookie and cracker manufacturing—Con.		
11116000	Rice, rough mil lb. .2002..	D	D
	1997..	N	N
11110003	Other grains (excluding wheat, oats, corn, barley, and rice (rough)) mil bushels . .2002..	S	1 459
	1997..	N	N
31121119	Corn grits 1,000 cwt. .2002..	D	D
	1997..	N	N
31121121	Corn meal and flakes 1,000 cwt. .2002..	62.8	1 139
	1997..	N	N
31121111	Wheat flour, white bread-type (excluding prepared mixes) mil lb. .2002..	S	58 436
	1997..	368.9	43 055
31121109	Wheat flour, cake-type (excluding prepared mixes) mil lb. .2002..	948.9	5 797
	1997..	134.6	16 214
31121103	Wheat flour, cookie and cracker-type (excluding prepared mixes) mil lb. .2002..	2 388.9	263 446
	1997..	3 014.7	334 072
31122121	Wheat gluten mil lb. .2002..	2.9	866
	1997..	1.8	1 438
31121105	Wheat flour, other (including whole wheat, and clear flour), excluding prepared mixes mil lb. .2002..	329.7	39 377
	1997..	250.8	31 397
31100005	Prepared doughnut mixes, cake and yeast types mil lb. .2002..	D	D
	1997..	D	D
31100007	Prepared bread mixes, including franchise mixes mil lb. .2002..	D	D
	1997..	S	3 006
31100009	Prepared cake mixes mil lb. .2002..	D	D
	1997..	D	D
31100011	Other prepared mixes, including sweetgoods mil lb. .2002..	D	D
	1997..	S	15 487
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons .2002..	271.6	112 191
	1997..	540.0	242 903
31131005	Sugar, cane and beet (sugar solids), excluding brown 1,000 s tons .2002..	251.0	104 309
	1997..	N	N
31131009	Brown sugar, cane and beet (sugar solids) 1,000 s tons .2002..	5.0	2 753
	1997..	N	N
31122111	Glucose syrup (corn syrup), conventional and regular (solids) mil lb. .2002..	112.7	17 786
	1997..	116.9	14 002
31122103	High fructose corn syrup (HFCS) (solids) mil lb. .2002..	S	17 258
	1997..	S	18 756
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) mil lb. .2002..	102.6	40 855
	1997..	156.4	43 018
32510057	Artificial sweeteners (solids) mil lb. .2002..	3.7	4 314
	1997..	S	5 611
31120011	Shortening, vegetable (100 percent) mil lb. .2002..	658.4	179 595
	1997..	540.4	173 729
31100023	Shortening, animal and blends of animal and vegetable mil lb. .2002..	S	5 408
	1997..	S	13 783
31161115	Lard mil lb. .2002..	D	D
	1997..	3.2	968
31100025	Fats and oils, other (cooking oils, butter, margarine, puff paste, etc.) mil lb. .2002..	151.6	64 951
	1997..	209.5	80 686
31199903	Compressed yeast mil lb. .2002..	D	D
	1997..	9.5	5 001
31199905	Active dry yeast mil lb. .2002..	3.1	2 783
	1997..	1.9	2 848
31141107	Frozen fruits mil lb. .2002..	—	49
	1997..	D	D
31142305	Fruits and nuts, dried (including raisins) 1,000 cwt. .2002..	S	18 841
	1997..	5	75 594
31142307	Raisins 1,000 cwt. .2002..	101.1	6 825
	1997..	N	N
31142313	Fruits, dried (excluding raisins) 1,000 cwt. .2002..	152.6	22 188
	1997..	N	N
31191103	Nutmeats, dried and dehydrated 1,000 cwt. .2002..	75.4	7 783
	1997..	N	N
11100031	Nuts and nutmeats, raw 1,000 cwt. .2002..	S	27 492
	1997..	N	N
31134001	Glaze, candied and crystallized fruits, fruit peel, nuts, and other vegetable substances mil lb. .2002..	3.2	2 302
	1997..	3.7	3 731
31142101	Jams, jellies and preserves, including fruit butter and maraschino cherries mil lb. .2002..	78.0	67 004
	1997..	S	69 489
31199901	Eggs (liquid, dried, and frozen) (dry weight equivalent) mil lb. .2002..	17.0	14 458
	1997..	13.7	17 812
31151305	Processed cheese mil lb. .2002..	51.2	77 754
	1997..	45.1	81 403
31151405	Milk and milk replacers (dry milk, dry whey, blends, soy whey, etc.) mil lb. .2002..	18.2	12 764
	1997..	19.7	12 368
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb. .2002..	191.6	166 832
	1997..	178.1	141 079
33299901	Aluminum foil packaging products, converted or rolls and sheets2002..	X	11 420
	1997..	X	13 283
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	234 989
	1997..	X	249 111

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311821	Cookie and cracker manufacturing—Con.		
001900A3	Bags (plastics, foil, and coated paper)2002..	X	39 989
	1997..	X	47 499
32222401	Bags (uncoated paper and multiwall)2002..	X	15 501
	1997..	X	3 539
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	348 680
	1997..	X	358 298
32721301	Glass containers2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	282 768
	1997..	X	383 394
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	245 805
	1997..	X	179 768
311822	Flour mixes and dough manufacturing from purchased flour		
00900001	Total materials2002..	X	2 131 877
	1997..	X	2 279 388
11114003	Wheat mil bushels2002..	4.9	14 406
	1997..	S	37 667
11119913	Oats mil bushels2002..	S	2 649
	1997..	S	57
11115003	Corn mil bushels2002..	S	3 599
	1997..	D	D
11119911	Barley mil bushels2002..	S	2 230
	1997..	D	D
11116000	Rice, rough mil lb2002..	D	D
	1997..	D	D
11110003	Other grains (excluding wheat, oats, corn, barley, and rice (rough)) mil bushels2002..	D	D
	1997..	D	D
31121119	Corn grits 1,000 cwt2002..	D	D
	1997..	D	D
31121121	Corn meal and flakes 1,000 cwt2002..	D	D
	1997..	S	10 149
31121111	Wheat flour, white bread-type (excluding prepared mixes) mil lb2002..	P2 148.1	263 963
	1997..	N	N
31121109	Wheat flour, cake-type (excluding prepared mixes) mil lb2002..	P622.8	72 661
	1997..	N	N
31121103	Wheat flour, cookie and cracker-type (excluding prepared mixes) mil lb2002..	D	D
	1997..	N	N
31122121	Wheat gluten mil lb2002..	58.9	28 648
	1997..	N	N
31121105	Wheat flour, other (including whole wheat, and clear flour), excluding prepared mixes mil lb2002..	P170.0	23 476
	1997..	N	N
31100005	Prepared doughnut mixes, cake and yeast types mil lb2002..	S	6 681
	1997..	N	N
31100007	Prepared bread mixes, including franchise mixes mil lb2002..	D	D
	1997..	N	N
31100009	Prepared cake mixes mil lb2002..	D	D
	1997..	N	N
31100011	Other prepared mixes, including sweetgoods mil lb2002..	16.5	6 881
	1997..	N	N
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons2002..	P162.0	74 021
	1997..	N	N
31131005	Sugar, cane and beet (sugar solids), excluding brown 1,000 s tons2002..	P237.0	121 432
	1997..	479.0	269 424
31131009	Brown sugar, cane and beet (sugar solids) 1,000 s tons2002..	S	4 220
	1997..	S	3 537
31122111	Glucose syrup (corn syrup), conventional and regular (solids) mil lb2002..	20.8	3 145
	1997..	N	N
31122103	High fructose corn syrup (HFCS) (solids) mil lb2002..	P54.1	9 829
	1997..	N	N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) mil lb2002..	72.9	18 293
	1997..	N	N
32510057	Artificial sweeteners (solids) mil lb2002..	1.1	954
	1997..	N	N
31120011	Shortening, vegetable (100 percent) mil lb2002..	159.3	47 197
	1997..	N	N
31100023	Shortening, animal and blends of animal and vegetable mil lb2002..	D	D
	1997..	N	N
31161115	Lard mil lb2002..	D	D
	1997..	N	N
31100025	Fats and oils, other (cooking oils, butter, margarine, puff paste, etc.) mil lb2002..	44.4	18 844
	1997..	N	N
31199903	Compressed yeast mil lb2002..	16.1	3 893
	1997..	N	N
31199905	Active dry yeast mil lb2002..	34.2	16 349
	1997..	N	N
31141107	Frozen fruits mil lb2002..	P6.0	5 563
	1997..	N	N
31142305	Fruits and nuts, dried (including raisins) 1,000 cwt2002..	49.7	8 863
	1997..	N	N
31142307	Raisins 1,000 cwt2002..	60.0	3 897
	1997..	S	3 519
31142313	Fruits, dried (excluding raisins) 1,000 cwt2002..	25.7	5 162
	1997..	S	6 953

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311822	Flour mixes and dough manufacturing from purchased flour—Con.		
31191103	Nutmeats, dried and dehydrated 1,000 cwt 2002..	19.1	2 929
	1997..	S	5 799
11100031	Nuts and nutmeats, raw 1,000 cwt 2002..		7 013
	1997..	S	8 214
31134001	Glace, candied and crystallized fruits, fruit peel, nuts, and other vegetable substances mil lb 2002..	127.2	770
	1997..	N	N
31142101	Jams, jellies and preserves, including fruit butter and maraschino cherries mil lb 2002..		2 108
	1997..	S	N
31199901	Eggs (liquid, dried, and frozen) (dry weight equivalent) mil lb 2002..	145.9	48 405
	1997..	N	N
31151305	Processed cheese mil lb 2002..	12.6	3 808
	1997..	N	N
31151405	Milk and milk replacers (dry milk, dry whey, blends, soy whey, etc.) mil lb 2002..	47.3	43 976
	1997..	N	N
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) mil lb 2002..	51.9	55 519
	1997..	N	N
33299901	Aluminum foil packaging products, converted or rolls and sheets 2002..	X	D
	1997..	X	N
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	61 160
	1997..	X	101 625
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	21 244
	1997..	X	19 504
32222401	Bags (uncoated paper and multiwall) 2002..	X	14 350
	1997..	X	14 608
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	193 648
	1997..	X	224 944
00970099	All other materials and components, parts, containers, and supplies 2002..	X	374 261
	1997..	X	1 303 445
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	343 939
	1997..	X	266 160
311823	Dry pasta manufacturing		
00900001	Total materials 2002..	X	814 261
	1997..	X	654 760
31121113	Wheat flour, other (including farina) 1,000 cwt 2002..		D
	1997..	1431.5	5 069
31121107	Wheat flour, semolina and durum 1,000 cwt 2002..		407 907
	1997..	20 391.0	294 045
31100019	Fats and oils, all types, purchased mil lb 2002..		D
	1997..	N	N
11100011	All other fresh vegetables (excluding cucumbers, corn, and white potatoes) 1,000 s tons 2002..		D
	1997..	N	N
31142309	Vegetables, dried (excluding potatoes and corn) 2002..	X	10 227
	1997..	X	N
11121100	White potatoes 1,000 s tons 2002..		D
	1997..	N	N
31122101	Corn syrup mil lb 2002..		D
	1997..	N	N
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons 2002..		D
	1997..	N	N
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	26 612
	1997..	X	43 612
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	6 020
	1997..	X	12 391
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	121 404
	1997..	X	62 230
00970099	All other materials and components, parts, containers, and supplies 2002..	X	113 142
	1997..	X	147 406
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	117 871
	1997..	X	90 007
311830	Tortilla manufacturing		
00900001	Total materials 2002..	X	457 721
	1997..	X	423 127
11115001	Field corn, whole grain mil lb 2002..		12 932
	1997..	128.6	23 712
31121127	Corn flour mil lb 2002..	128.6	103 465
	1997..	1795.4	107 839
31121101	Wheat flour 1,000 cwt 2002..	286.4	103 649
	1997..	346.3	118 236
31100019	Fats and oils, all types, purchased mil lb 2002..	73.6	21 698
	1997..	53.8	21 036
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	27 857
	1997..	X	20 659
001900A1	Packaging paper and plastics film, coated and laminated 2002..	X	D
	1997..	X	14 321
001900A3	Bags (plastics, foil, and coated paper) 2002..	X	32 558
	1997..	X	34 517
32222401	Bags (uncoated paper and multiwall) 2002..	X	D
	1997..	X	557
00970099	All other materials and components, parts, containers, and supplies 2002..	X	37 353
	1997..	X	31 910
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	105 500
	1997..	X	50 340

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311911	Roasted nuts and peanut butter manufacturing		
00900001	Total materials2002..	X	2 741 732
	1997..	X	2 311 805
11199203	Shelled peanuts mil lb..2002..	P1 056.3	592 148
	1997..	N	
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	16 078
	1997..	X	42 549
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	42 818
	1997..	X	55 146
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)2002..	X	21 292
	1997..	X	
001900A3	Bags (plastics, foil, and coated paper)2002..	X	10 970
	1997..	X	
32222401	Bags (uncoated paper and multiwall)2002..	X	D
	1997..	X	N
33243101	Metal cans, lids, and ends2002..	X	D
	1997..	X	
32721301	Glass containers2002..	X	26 880
	1997..	X	16 241
00970099	All other materials and components, parts, containers, and supplies2002..	X	1 642 257
	1997..	X	2 055 014
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	392 077
	1997..	X	118 069
311919	Other snack food manufacturing		
00900001	Total materials2002..	X	3 296 551
	1997..	X	3 499 701
11199203	Shelled peanuts mil lb..2002..	D	
	1997..	P3.5	2 625
11115001	Field corn, whole grain mil lb..2002..	D	
	1997..	669.0	107 648
11121100	White potatoes 1,000 s tons..2002..	S	502 474
	1997..	3 979.8	726 912
11115007	Popcorn, whole grain mil lb..2002..	491.4	61 339
	1997..	83.1	16 303
31121117	Corn grits, meal, and flakes 1,000 cwt..2002..	D	D
	1997..	D	D
31121127	Corn flour mil lb..2002..	D	D
	1997..	D	D
31121101	Wheat flour 1,000 cwt..2002..	S	75 964
	1997..	P4 287.0	45 185
11100027	Spices, raw mil lb..2002..	D	
	1997..	P12.5	15 126
31100019	Fats and oils, all types, purchased mil lb..2002..	S	390 648
	1997..	1 275.2	384 786
31122101	Corn syrup mil lb..2002..	6.9	860
	1997..	10.2	1 342
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons..2002..	D	D
	1997..	N	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	584 975
	1997..	X	421 282
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	249 607
	1997..	X	175 572
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)2002..	X	47 527
	1997..	X	
001900A3	Bags (plastics, foil, and coated paper)2002..	X	51 772
	1997..	X	50 589
32222401	Bags (uncoated paper and multiwall)2002..	X	2 724
	1997..	X	12 460
33243101	Metal cans, lids, and ends2002..	X	253
	1997..	X	132 810
32721301	Glass containers2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	162 283
	1997..	X	455 912
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	337 365
	1997..	X	120 768
311920	Coffee and tea manufacturing		
00900001	Total materials2002..	X	2 413 365
	1997..	X	4 147 202
11130009	Green coffee 1,000 cwt..2002..	11 230.0	974 237
	1997..	P21 495.5	3 156 789
11130011	Raw tea mil lb..2002..	P82.2	97 745
	1997..	969.4	71 801
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	94 746
	1997..	X	110 234
001900A3	Bags (plastics, foil, and coated paper)2002..	X	48 069
	1997..	X	45 516
32222401	Bags (uncoated paper and multiwall)2002..	X	6 755
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	D
	1997..	X	116 938
32610043	Plastic containers and plastic can and jar lids2002..	X	D
	1997..	X	25 546
32721301	Glass containers2002..	X	17 458
	1997..	X	15 050
33243101	Metal cans, lids, and ends2002..	X	127 108
	1997..	X	159 568
00970099	All other materials and components, parts, containers, and supplies2002..	X	206 746
	1997..	X	278 053
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	488 618
	1997..	X	167 707

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311930	Flavoring syrup and concentrate manufacturing		
00900001	Total materials2002..	X	1 127 127
	1997..	X	1 466 044
31142103	Fruit juices, concentrated mil gal..2002..	P7.8	58 919
	1997..	3.2	33 423
31131001	Sugar, cane and beet (sugar solids)1,000 s tons..2002..	P24.4	15 071
	1997..	N	N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) mil lb..2002..	70.4	19 263
	1997..	951.5	14 648
32510057	Artificial sweeteners (solids) mil lb..2002..	D	D
	1997..	2 410.4	151 981
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	D
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	45 841
	1997..	X	38 370
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)2002..	X	D
	1997..	X	1 513
33243101	Metal cans, lids, and ends2002..	X	D
	1997..	X	3 668
32721301	Glass containers2002..	X	6 225
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	809 686
	1997..	X	1 066 902
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	113 174
	1997..	X	155 539
311941	Mayonnaise, dressing, and other prepared sauce manufacturing		
00900001	Total materials2002..	X	2 660 430
	1997..	X	2 745 760
31142309	Vegetables, dried (excluding potatoes and corn)2002..	X	D
	1997..	X	N
31100019	Fats and oils, all types, purchased mil lb..2002..	P1 138.1	253 023
	1997..	P1 537.5	429 464
31122101	Corn syrup mil lb..2002..	338.7	35 818
	1997..	246.8	26 538
31131001	Sugar, cane and beet (sugar solids)1,000 s tons..2002..	P52.5	25 896
	1997..	N	N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) mil lb..2002..	P86.4	34 985
	1997..	N	N
31150000	Milk and milk products mil gal..2002..	P37.2	70 488
	1997..	N	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	64 220
	1997..	X	82 435
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	77 591
	1997..	X	92 172
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)2002..	X	143 280
	1997..	X	N
001900A3	Bags (plastics, foil, and coated paper)2002..	X	D
	1997..	X	35 818
32222401	Bags (uncoated paper and multiwall)2002..	X	D
	1997..	X	N
33243101	Metal cans, lids, and ends2002..	X	13 655
	1997..	X	N
32721301	Glass containers2002..	X	168 700
	1997..	X	327 299
00970099	All other materials and components, parts, containers, and supplies2002..	X	870 456
	1997..	X	1 605 152
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	871 367
	1997..	X	146 882
311942	Spice and extract manufacturing		
00900001	Total materials2002..	X	2 359 510
	1997..	X	1 935 804
31121127	Corn flour mil lb..2002..	20.4	3 487
	1997..	D	D
31121101	Wheat flour1,000 cwt..2002..	1 829.1	21 719
	1997..	2 176.6	25 023
31142309	Vegetables, dried (excluding potatoes and corn)2002..	X	28 608
	1997..	X	52 975
31142103	Fruit juices, concentrated mil gal..2002..	P3.1	31 362
	1997..	.9	13 620
11100027	Spices, raw mil lb..2002..	9471.8	497 500
	1997..	407.6	539 236
31100019	Fats and oils, all types, purchased mil lb..2002..	42.0	17 796
	1997..	177.9	72 608
31122101	Corn syrup mil lb..2002..	68.4	5 607
	1997..	S	6 338
31131001	Sugar, cane and beet (sugar solids)1,000 s tons..2002..	P23.7	13 060
	1997..	N	N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) mil lb..2002..	36.8	11 242
	1997..	N	N
32510057	Artificial sweeteners (solids) mil lb..2002..	S	2 161
	1997..	N	N
001900A1	Packaging paper and plastics film, coated and laminated2002..	X	24 545
	1997..	X	34 272
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	49 225
	1997..	X	46 413
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)2002..	X	24 320

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311942	Spice and extract manufacturing—Con.		
001900A3	Bags (plastics, foil, and coated paper)	1997.. X 2002.. X	N 6 569
32222401	Bags (uncoated paper and multiwall)	1997.. X 2002.. X	18 753 3 806
33243101	Metal cans, lids, and ends	1997.. X 2002.. X	3 968 13 384
32721301	Glass containers	1997.. X 2002.. X	17 707 2 653
00970099	All other materials and components, parts, containers, and supplies	1997.. X 2002.. X	12 658 692 563
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X 2002.. X	912 697 909 903 177 773
311991	Perishable prepared food manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 355 387 1 157 117
11199203	Shelled peanuts	2002.. S 1997.. N	37 N
11115001	Field corn, whole grain	2002.. S 1997.. N	4 191 2 783
11121100	White potatoes	2002.. P15.2 1997.. S	35 972 64 096
11115007	Popcorn, whole grain	2002.. D 1997.. N	D N
31121117	Corn grits, meal, and flakes	2002.. D 1997.. D	D D
31121127	Corn flour	2002.. S 1997.. S	3 463 7 606
31121101	Wheat flour	2002.. P2 159.2 1997.. 761.2	24 939 8 612
00190045	Fruits, fresh and dried	2002.. P23.9 1997.. N	17 550 N
00190041	Sweetcorn, fresh and frozen	2002.. S 1997.. P.4	544 301
11100025	All other fresh vegetables (excluding white potatoes and sweet corn (fresh and frozen))	2002.. S 1997.. S	404 649 188 400
31142309	Vegetables, dried (excluding potatoes and corn)	2002.. D 1997.. X	D 1 102
31141105	Frozen fruits and vegetables, for further processing	2002.. 36.5 1997.. N	10 211 N
31142103	Fruit juices, concentrated	2002.. D 1997.. N	D N
11100027	Spices, raw	2002.. P12.7 1997.. S	10 702 4 472
31100019	Fats and oils, all types, purchased	2002.. 91.8 1997.. S	24 944 13 662
31122101	Corn syrup	2002.. D 1997.. S	D 408
31131001	Sugar, cane and beet (sugar solids)	2002.. D 1997.. N	D N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids)	2002.. 39.3 1997.. N	15 466 N
32510057	Artificial sweeteners (solids)	2002.. S 1997.. N	59 N
31150000	Milk and milk products	2002.. P10.4 1997.. N	19 372 N
31100009	Prepared cake mixes	2002.. D 1997.. N	D N
31100011	Other prepared mixes, including sweetgoods	2002.. D 1997.. N	D N
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.)	2002.. D 1997.. N	D N
11130011	Raw tea	2002.. D 1997.. N	D N
001900A1	Packaging paper and plastics film, coated and laminated	2002.. X 1997.. X	51 097 35 774
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	125 107 101 417
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)	2002.. X 1997.. X	85 564 N
001900A3	Bags (plastics, foil, and coated paper)	2002.. X 1997.. X	31 359 6 087
32222401	Bags (uncoated paper and multiwall)	2002.. X 1997.. X	326 D
33243101	Metal cans, lids, and ends	2002.. X 1997.. X	3 713 N
32721301	Glass containers	2002.. X 1997.. X	D N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	463 547 492 676
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	876 506 225 529

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
311999	All other miscellaneous food manufacturing		
00900001	Total materials	X	4 100 837
	..... 1997..	X	3 906 200
11199203	Shelled peanuts	D	D
	..... mil lb..2002..	N	N
	..... 1997..	N	N
11115001	Field corn, whole grain	D	D
	..... mil lb..2002..	N	N
	..... 1997..	N	N
11121100	White potatoes	D	D
	..... 1,000 s tons..2002..	5.2	2 354
	..... 1997..	111.6	15 412
11115007	Popcorn, whole grain	784.5	117 829
	..... 1997..		
31121117	Corn grits, meal, and flakes	D	D
	..... 1,000 cwt..2002..	D	D
	..... 1997..		
31121127	Corn flour	42.3	7 819
	..... mil lb..2002..	11.6	1 683
	..... 1997..		
31121101	Wheat flour	2 823.0	37 855
	..... 1,000 cwt..2002..	8 146.6	102 935
	..... 1997..		
00190045	Fruits, fresh and dried	5.2	4 548
	..... mil lb..2002..	N	N
	..... 1997..	N	N
00190041	Sweetcorn, fresh and frozen	D	D
	..... 1,000 s tons..2002..	N	N
	..... 1997..		
11100025	All other fresh vegetables (excluding white potatoes and sweet corn (fresh and frozen))	S	7 048
	..... 1,000 s tons..2002..	N	N
	..... 1997..		
31142309	Vegetables, dried (excluding potatoes and corn)	X	6 318
	..... 2002..	X	19 595
	..... 1997..		
31141105	Frozen fruits and vegetables, for further processing	D	D
	..... mil lb..2002..	N	N
	..... 1997..		
31142103	Fruit juices, concentrated .....	.6	4 206
	..... mil gal..2002..	D	D
	..... 1997..		
11100027	Spices, raw	109.4	101 826
	..... mil lb..2002..	34.7	23 272
	..... 1997..		
31100019	Fats and oils, all types, purchased	S	81 920
	..... mil lb..2002..	197.4	68 642
	..... 1997..	9276.5	52 882
31122101	Corn syrup	343.5	41 401
	..... mil lb..2002..	9195.9	113 430
	..... 1997..		
31131001	Sugar, cane and beet (sugar solids)	N	N
	..... 1,000 s tons..2002..		
	..... 1997..		
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids)	S	252 221
	..... mil lb..2002..	N	N
	..... 1997..		
32510057	Artificial sweeteners (solids)	P.7	1 706
	..... mil lb..2002..	N	N
	..... 1997..		
31150000	Milk and milk products	45.3	57 827
	..... mil gal..2002..	N	N
	..... 1997..		
31100009	Prepared cake mixes	P1.1	1 259
	..... mil lb..2002..	N	N
	..... 1997..		
31100011	Other prepared mixes, including sweetgoods	10.6	6 528
	..... mil lb..2002..	N	N
	..... 1997..		
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.)	11.1	9 559
	..... mil lb..2002..	N	N
	..... 1997..		
11130009	Green coffee	D	D
	..... 1,000 cwt..2002..	N	N
	..... 1997..		
11130011	Raw tea	P1.5	3 229
	..... mil lb..2002..	N	N
	..... 1997..		
001900A1	Packaging paper and plastics film, coated and laminated	X	35 737
	..... 2002..	X	N
	..... 1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	153 235
	..... 2002..	X	261 004
	..... 1997..		
00190050	Plastics wrappings, trays, carriers, etc. (including preforms)	X	58 125
	..... 2002..	X	N
	..... 1997..		
001900A3	Bags (plastics, foil, and coated paper)	X	59 258
	..... 2002..	X	N
	..... 1997..		
32222401	Bags (uncoated paper and multiwall)	X	4 932
	..... 2002..	X	N
	..... 1997..		
33243101	Metal cans, lids, and ends	X	48 638
	..... 2002..	X	28 029
	..... 1997..		
32721301	Glass containers	X	55 734
	..... 2002..	X	34 243
	..... 1997..		
00970099	All other materials and components, parts, containers, and supplies	X	1 623 636
	..... 2002..	X	2 459 197
	..... 1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 272 464
	..... 2002..	X	739 852
	..... 1997..		
312111	Soft drink manufacturing		
00900001	Total materials	X	17 674 389
	..... 2002..	X	16 940 031
	..... 1997..		
31131001	Sugar, cane and beet (sugar solids)	107.5	42 994
	..... 1,000 s tons..2002..	N	N
	..... 1997..		
31122105	Fructose corn syrup (50 percent or less) (solids)	P1 933.7	185 991
	..... mil lb..2002..	P3 164.3	343 147
	..... 1997..		
31122107	Fructose corn syrup (50 percent or more) (solids)	P8 222.7	941 203
	..... mil lb..2002..	P7 930.7	1 027 132
	..... 1997..		
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids)	87.2	23 719
	..... mil lb..2002..	128.3	26 000
	..... 1997..		
32510057	Artificial sweeteners (solids)	23.5	33 907
	..... mil lb..2002..	296.9	25 846
	..... 1997..		
31193001	Liquid beverage base concentrates with some juice content (finished drink basis)	S	315 839
	..... mil cases, 192 oz case equiv..2002..	P441.4	275 823
	..... 1997..		
31193003	Other liquid beverage base concentrates (finished drink basis)	P4 686.9	5 822 543
	..... mil cases, 192 oz case equiv..2002..		
	..... 1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
312111	Soft drink manufacturing—Con.		
31193005	Liquid beverage base syrups (finished drink basis) mil cases, 192 oz case equiv. 1997..	95 464.7	4 232 665
31142103	Fruit juices, concentrated mil gal. 2002..	S	934 574
00190050	Plastics wrappings, trays, carriers, etc. (including preforms) 1997..	S	815 154
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	63.8	265 781
32610027	Plastics bottles and cans 1997..	S	357 830
32721309	Glass containers, refillable, with or without paperboard wrapping 2002..	X	432 783
32721311	Glass containers, nonrefillable, with or without paperboard wrapping or plastics shielding 1997..	X	313 753
33243101	Metal cans, lids, and ends 2002..	X	1 206 259
00970099	All other materials and components, parts, containers, and supplies 1997..	X	491 787
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	2 384 889
312112	Bottled water manufacturing		
00900001	Total materials 1997..	X	1 670 628
00190050	Plastics wrappings, trays, carriers, etc. (including preforms) 2002..	X	41 160
32221001	Paperboard containers, boxes, and corrugated paperboard 1997..	X	42 919
32610027	Plastics bottles and cans 2002..	X	201 952
32721309	Glass containers, refillable, with or without paperboard wrapping 1997..	X	333 256
32721311	Glass containers, nonrefillable, with or without paperboard wrapping or plastics shielding 2002..	X	3 397 848
33243101	Metal cans, lids, and ends 1997..	X	3 799 676
00970099	All other materials and components, parts, containers, and supplies 2002..	X	1 145 185
00971000	Materials, ingredients, containers, and supplies, nsk 1997..	X	1 389 457
00900001	Total materials 2002..	X	297 762
00190050	Plastics wrappings, trays, carriers, etc. (including preforms) 1997..	X	1 794 958
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	636 216
32610027	Plastics bottles and cans 1997..	X	348 110
32721309	Glass containers, refillable, with or without paperboard wrapping 2002..	X	D
32721311	Glass containers, nonrefillable, with or without paperboard wrapping or plastics shielding 1997..	X	2 293
33243101	Metal cans, lids, and ends 2002..	X	37 171
00970099	All other materials and components, parts, containers, and supplies 1997..	X	16 934
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	76 952
00900001	Total materials 1997..	X	53 260
11119911	Barley mil bushels 2002..	X	D
11115005	Corn, purchased as grain mil bushels 1997..	X	D
31121119	Corn grits 1,000 cwt. 2002..	X	D
31121121	Corn meal and flakes 1,000 cwt. 1997..	X	D
31121300	Malt 1,000 cwt. 2002..	X	D
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) mil lb. 1997..	95 492.4	49 720
31122103	High fructose corn syrup (HFCS) (solids) mil lb. 2002..	D	D
31131001	Sugar, cane and beet (sugar solids) 1,000 s tons 1997..	95 282.2	791 968
32510053	Sugar substitutes (mannitol, sorbitol, etc.) 1,000 s tons 2002..	D	D
32221001	Paperboard containers, boxes, and corrugated paperboard 1997..	D	D
32721301	Glass containers 2002..	D	D
33243101	Metal cans, lids, and ends 1997..	D	D
00970099	All other materials and components, parts, containers, and supplies 2002..	D	D
00971000	Materials, ingredients, containers, and supplies, nsk 1997..	D	D
00900001	Total materials 2002..	D	D
00190016	All other materials, ingredients, and supplies consumed in wine manufacturing 2002..	D	D
11133200	Fresh grapes 1,000 s tons 1997..	620.9	53 428
31121300	Malt 1,000 cwt. 2002..	D	D
32192005	Cooperage used in grain distilling millions 1997..	421.9	43 695
		1.0	593
		N	N
		D	D
		D	D
		X	D
		X	2 224 266
		X	580 139
		X	2 504 920
		X	1 807 780
		X	378 377
312130	Wineries		
00900001	Total materials 2002..	X	3 952 452
00190016	All other materials, ingredients, and supplies consumed in wine manufacturing 1997..	X	3 539 821
11133200	Fresh grapes 1,000 s tons 2002..	X	540 530
31121300	Malt 1,000 cwt. 1997..	X	531 521
32192005	Cooperage used in grain distilling millions 2002..	2 120.0	1 675 631
		S	1 356 565
		D	D
		N	N
		D	D
		N	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
312130	Wineries—Con.		
31213001	Purchased wines used for blending mil wine gal	S	844 460
	1997	S	827 025
31213003	Purchased wines used for other purposes mil wine gal	S	126 561
	1997	22.6	119 986
32721305	Glass containers, for wine and brandy manufacture 1,000 gross	P9 787.7	476 058
	1997	S	440 508
32221003	Paperboard boxes and containers, used for wine and brandy manufacturing	X	78 292
	1997	X	65 293
00970099	All other materials and components, parts, containers, and supplies	X	5 851
	1997	X	5 446
00971000	Materials, ingredients, containers, and supplies, nsk	X	202 458
	1997	X	193 477
312140	Distilleries		
00900001	Total materials	X	1 219 043
	1997	X	1 471 330
11133200	Fresh grapes 1,000 s tons	D	D
	1997	N	N
31213001	Purchased wines used for blending mil wine gal	D	D
	1997	N	N
31213003	Purchased wines used for other purposes mil wine gal	D	D
	1997	N	N
32721305	Glass containers, for wine and brandy manufacture 1,000 gross	D	D
	1997	N	N
32221003	Paperboard boxes and containers, used for wine and brandy manufacturing	X	D
	1997	X	N
11115004	Corn, purchased as grain	X	22 785
	1997	X	N
11110001	Other grains (rye, barley, etc.) used in grain distilling mil bushels	P1.3	5 160
	1997	1.9	9 550
31121300	Malt 1,000 cwt	S	8 886
	1997	S	8 373
32192005	Cooperage used in grain distilling millions	70.6	51 489
	1997 . . . . .	.6	46 262
00190017	All other materials, ingredients, and supplies consumed in distilling operations	X	D
	1997	X	2 278
31214001	Neutral spirits used in the processing of whiskey mil tax gal	D	D
	1997	S	5 428
31214005	Neutral spirits used in the processing of vodka mil tax gal	24.9	19 970
	1997	P36.5	32 892
31214007	Neutral spirits used in the processing of gin mil tax gal	5.6	5 017
	1997	S	1 961
31214009	Neutral spirits used in the processing of other liquors mil tax gal	34.2	110 715
	1997	S	130 052
31214003	Aged whiskey, used in the processing and bottling of distilled liquors mil tax gal	D	D
	1997	P54.3	270 866
32610030	Plastics containers, used for distilled liquor	X	61 824
	1997	X	N
32721307	Glass containers, used in the processing and bottling of distilled liquors	X	178 537
	1997	X	337 601
32221005	Paperboard boxes and containers, used in the processing and bottling of distilled liquors	X	49 719
	1997	X	23 436
00190018	All other materials, ingredients, and supplies consumed in the processing and bottling of distilled liquors	X	332 034
	1997	X	52 656
00970099	All other materials and components, parts, containers, and supplies	X	47 027
	1997	X	316 147
00971000	Materials, ingredients, containers, and supplies, nsk	X	179 942
	1997	X	233 828
312210	Tobacco stemming and redrying		
00900001	Total materials	X	783 838
	1997	X	2 459 620
11191000	Leaf tobacco, unstemmed (including green tobacco not packed) mil lb	P158.6	291 952
	1997	955.2	1 806 588
31220000	Unstemmed leaf tobacco, redried and packed mil lb	D	D
	1997	45.1	97 350
31221000	Stemmed leaf tobacco (excluding processed sheet and homogenized) mil lb	D	D
	1997	312.8	522 375
31222903	Reconstituted tobacco, processed sheet and homogenized mil lb	D	D
	1997	D	D
32221001	Paperboard containers, boxes, and corrugated paperboard	X	4 283
	1997	X	D
00970099	All other materials and components, parts, containers, and supplies	X	45 057
	1997	X	3
00971000	Materials, ingredients, containers, and supplies, nsk	X	2 072
	1997	X	17 402
312221	Cigarette manufacturing		
00900001	Total materials	X	3 602 848
	1997	X	5 437 980
11191000	Leaf tobacco, unstemmed (including green tobacco not packed) mil lb	D	D
	1997	D	D
31220000	Unstemmed leaf tobacco, redried and packed mil lb	D	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
312221	Cigarette manufacturing—Con.		
31221000	1997..	D	D
31222903	Stemmed leaf tobacco (excluding processed sheet and homogenized)..... mil lb..2002..	D	D
32221001	1997..	833.0	2 127 113
32520003	Reconstituted tobacco, processed sheet and homogenized mil lb..2002..	42.2	73 467
00970099	1997..	D	D
00971000	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	D
	1997..	X	D
	Manmade fibers, staple, and tow .....2002..	X	277 640
	1997..	X	438 283
	All other materials and components, parts, containers, and supplies .....2002..	X	801 000
	1997..	X	1 171 641
	Materials, ingredients, containers, and supplies, nsk .....2002..	X	48 292
	1997..	X	-
312229	Other tobacco product manufacturing		
00900001	Total materials .....2002..	X	714 270
11191000	1997..	X	788 118
31220000	Leaf tobacco, unstemmed (including green tobacco not packed) mil lb..2002..	D	D
31221000	1997..	39.0	60 803
31222903	Unstemmed leaf tobacco, redried and packed mil lb..2002..	54.4	128 578
31221000	1997..	91.7	183 544
31222903	Stemmed leaf tobacco (excluding processed sheet and homogenized)..... mil lb..2002..	143.2	150 714
	1997..	107.7	189 923
32221001	Reconstituted tobacco, processed sheet and homogenized mil lb..2002..	D	D
32520003	1997..	45.5	57 613
00970099	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	65 807
00971000	1997..	X	33 023
	Manmade fibers, staple, and tow .....2002..	X	7 087
	1997..	X	D
	All other materials and components, parts, containers, and supplies .....2002..	X	181 423
	1997..	X	245 358
	Materials, ingredients, containers, and supplies, nsk .....2002..	X	24 942
	1997..	X	9 340
313111	Yarn spinning mills		
00900001	Total materials .....2002..	X	3 299 641
11192001	1997..	X	4 806 068
11200001	Cotton fibers, raw 1,000 bales..2002..	3 300.8	1 171 043
31499905	1997..	5 618.3	2 296 783
32522105	Other animal fibers (wool, mohair, etc.), raw .....2002..	X	79 140
	1997..	X	N
	Wool tops .....2002..	X	D
	1997..	X	95 310
	Rayon and acetate staple and tow mil lb..2002..	S	97 878
	1997..	70.6	142 001
32522215	Nylon staple and tow mil lb..2002..	P359.9	379 765
32522223	1997..	553.8	717 486
32522225	Polyester staple and tow mil lb..2002..	775.3	459 396
32522227	1997..	751.9	620 564
32522227	Acrylic staple and tow mil lb..2002..	S	190 049
	1997..	235.1	213 334
	All other manmade fiber staple and tow (excluding glass) mil lb..2002..	S	67 084
	1997..	22.9	101 158
31311101	Spun yarn, all fibers mil lb..2002..	S	191 032
	1997..	P27.7	47 367
32522211	Nylon filament yarn mil lb..2002..	S	171 289
32522221	1997..	88.2	158 299
32522205	Polyester filament yarn mil lb..2002..	P112.8	88 700
32513003	1997..	D	D
00970099	All other manmade fiber filament yarns mil lb..2002..	D	D
00971000	1997..	D	D
	Dyes, lakes, and toners .....2002..	X	26 450
	1997..	X	20 203
	All other materials and components, parts, containers, and supplies .....2002..	X	330 083
	1997..	X	301 343
	Materials, ingredients, containers, and supplies, nsk .....2002..	X	23 742
	1997..	X	54 778
313112	Yarn texturizing, throwing, and twisting mills		
00900001	Total materials .....2002..	X	2 960 057
11192001	1997..	X	2 936 255
11200001	Cotton fibers, raw 1,000 bales..2002..	D	D
32522105	1997..	D	D
32522215	Other animal fibers (wool, mohair, etc.), raw .....2002..	X	D
	1997..	X	N
	Rayon and acetate staple and tow mil lb..2002..	D	D
	1997..	D	D
	Nylon staple and tow mil lb..2002..	521.2	347 676
	1997..	166.9	164 160
32522223	Polyester staple and tow mil lb..2002..	S	38 434
32522225	1997..	210.4	161 306
32522227	Acrylic staple and tow mil lb..2002..	D	D
	1997..	N	D
	All other manmade fiber staple and tow (excluding glass) mil lb..2002..	D	D
	1997..	N	N
31311101	Spun yarn, all fibers mil lb..2002..	77.7	102 059
32522211	1997..	61.5	40 523
	Nylon filament yarn mil lb..2002..	S	1 228 875
	1997..	789.6	1 282 682

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
313112	Yarn texturizing, throwing, and twisting mills—Con.		
32522221	Polyester filament yarn mil lb. .2002..	S	855 788
	1997..	875.5	952 903
32522205	All other manmade fiber filament yarns mil lb. .2002..	D	D
	1997..	S	72 984
32513003	Dyes, lakes, and toners 2002..	X	12 771
	1997..	X	25 794
00970099	All other materials and components, parts, containers, and supplies 2002..	X	232 819
	1997..	X	95 450
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	S
	1997..	X	135 744
313113	Thread mills		
00900001	Total materials 2002..	X	168 150
	1997..	X	361 492
31311101	Spun yarn, all fibers mil lb. .2002..	S	75 234
	1997..	P14.7	135 868
32522211	Nylon filament yarn mil lb. .2002..	S	26 389
	1997..	P6.9	52 614
32522205	All other manmade fiber filament yarns mil lb. .2002..	D	D
	1997..	S	6 240
32522201	Noncellulosic (polyester, nylon, etc.) fibers mil lb. .2002..	D	D
	1997..	N	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	20 233
	1997..	X	158 802
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	18 167
	1997..	X	7 968
313210	Broadwoven fabric mills		
00900001	Total materials 2002..	X	5 501 054
	1997..	X	9 659 767
11192001	Cotton fibers, raw 1,000 bales .2002..	2 079.4	520 407
	1997..	4 164.1	1 685 115
11200000	Other animal fibers (wool, mohair, etc.), raw mil lb. .2002..	P15.2	32 957
	1997..	73.9	162 041
32522105	Rayon and acetate staple and tow mil lb. .2002..	S	30 562
	1997..	110.8	175 863
32522215	Nylon staple and tow mil lb. .2002..	D	D
	1997..	P15.4	22 402
32522223	Polyester staple and tow mil lb. .2002..	326.2	178 386
	1997..	656.5	416 526
32522227	All other manmade fiber staple and tow (excluding glass) mil lb. .2002..	S	40 192
	1997..	S	163 543
00999829	All other fibers (silk, jute, reused wool, waste, etc.) mil lb. .2002..	D	D
	1997..	D	D
32522101	Rayon, acetate, and lyocell filament yarns mil lb. .2002..	937.3	82 299
	1997..	140.1	282 724
32522211	Nylon filament yarn mil lb. .2002..	72.8	205 692
	1997..	P168.0	480 792
32522221	Polyester filament yarn mil lb. .2002..	9327.8	479 373
	1997..	499.1	869 292
32522203	All other filament yarns (excluding glass) mil lb. .2002..	94.3	201 911
	1997..	231.7	421 975
32721207	Glass filament yarn and roving mil lb. .2002..	S	265 291
	1997..	S	306 883
31311101	Spun yarn, all fibers mil lb. .2002..	P999.1	1 410 569
	1997..	1 049.8	1 890 047
31321027	Broadwoven fabrics mil sq yd. .2002..	S	320 809
	1997..	S	737 912
32513003	Dyes, lakes, and toners 2002..	X	106 183
	1997..	X	231 746
00970099	All other materials and components, parts, containers, and supplies 2002..	X	592 258
	1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	970 456
	1997..	X	394 131
313221	Narrow fabric mills		
00900001	Total materials 2002..	X	466 500
	1997..	X	556 542
31311103	Cotton yarns 2002..	X	22 215
	1997..	X	40 643
32522220	Polyester filament yarn 2002..	X	103 403
	1997..	X	N
32522210	Nylon filament yarn 2002..	X	108 592
	1997..	X	N
32522212	Rayon, acetate, and lyocell filament yarns 2002..	X	7 909
	1997..	X	N
31311001	All other yarns 2002..	X	54 272
	1997..	X	76 523
32629907	Rubber thread, bare 2002..	X	30 557
	1997..	X	37 878
31311112	Spun polyester yarns 2002..	X	39 354
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	112 197
	1997..	X	355 439
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	S
	1997..	X	46 059

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
313222	Schiffli machine embroidery		
00900001	Total materials	2002.. X	34 882
		1997.. X	54 317
31321013	Polyester broadwoven fabrics (piece goods)	2002.. X	995
		1997.. X	3 647
31321003	Cotton broadwoven fabrics (piece goods)	2002.. X	1 567
		1997.. X	3 155
31322103	Narrow fabrics (12 inches or less in width)	2002.. X	D
		1997.. X	2 792
31311003	Yarn, all fibers	2002.. X	7 412
		1997.. X	8 667
31332001	Fabrics (plastics coated, impregnated, and laminated)	2002.. X	D
		1997.. X	1 101
31500002	Garments, purchased to be embroidered and resold	2002.. X	8 046
		1997.. X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	D
		1997.. X	1 335
00970099	All other materials and components, parts, containers, and supplies	2002.. X	6 942
		1997.. X	19 990
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	6 570
		1997.. X	13 630
313230	Nonwoven fabric mills		
00900001	Total materials	2002.. X	2 519 615
		1997.. X	2 425 795
11192001	Cotton fibers, raw	2002.. S	10 289
	1,000 bales	1997.. S	29 363
11200001	Other animal fibers (wool, mohair, etc.), raw	2002.. X	D
		1997.. X	N
32522104	Rayon and acetate staple and tow	2002.. X	60 330
		1997.. X	N
32522200	Noncellulosic (polyester, nylon, etc.) fibers	2002.. X	513 042
		1997.. X	N
31311003	Yarn, all fibers	2002.. X	103 226
		1997.. X	132 941
31320003	Textile fabrics	2002.. X	59 812
		1997.. X	69 391
32212002	Paper (cellulosic wadding)	2002.. X	106 981
		1997.. X	N
32552008	Adhesives and binders (resins)	2002.. X	49 053
		1997.. X	N
32500015	Additives (fire retardants, water repellants, softeners, antistatics, etc.)	2002.. X	60 241
		1997.. X	45 368
32521139	Vinyl and vinyl copolymer resins (all forms)	2002.. X	D
		1997.. X	10 814
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	503 157
		1997.. X	562 676
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	72 585
		1997.. X	90 628
32513003	Dyes, lakes, and toners	2002.. X	30 667
		1997.. X	27 744
00970099	All other materials and components, parts, containers, and supplies	2002.. X	820 600
		1997.. X	1 341 025
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	98 391
		1997.. X	115 845
313241	Weft knit fabric mills		
00900001	Total materials	2002.. X	1 063 369
		1997.. X	1 750 691
31324000	Knit fabrics	2002.. X	D
		1997.. X	7 220
32520003	Manmade fibers, staple, and tow	2002.. X	21 794
		1997.. X	53 834
00999831	All other fibers (cotton, wool, etc.)	2002.. X	D
		1997.. X	N
31311105	Carded cotton yarn	2002.. X	326 488
		1997.. X	301 314
31311107	Combed cotton yarn	2002.. X	166 501
		1997.. X	267 249
31311109	Spun rayon and acetate yarn	2002.. X	4 882
		1997.. X	13 269
31311110	Spun nylon yarn	2002.. X	5 305
		1997.. X	N
31311112	Spun polyester yarns	2002.. X	141 249
		1997.. X	N
31311118	All other spun yarns	2002.. X	D
		1997.. X	N
32522210	Nylon filament yarn	2002.. X	10 810
		1997.. X	N
31311115	Acrylic yarns	2002.. X	D
		1997.. X	23 769
32522220	Polyester filament yarn	2002.. X	44 365
		1997.. X	N
31311001	All other yarns	2002.. X	14 805
		1997.. X	162 155
32522206	All other manmade fiber filament yarns	2002.. X	D
		1997.. X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
313241	Weft knit fabric mills—Con.		
31321017	Broadwoven fabrics 2002..	X	D
	1997..	X	N
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) 2002..	X	D
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	87 710
	1997..	X	775 533
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	74 439
	1997..	X	146 348
313249	Other knit fabric and lace mills		
00900001	Total materials 2002..	X	753 064
	1997..	X	1 291 323
31324000	Knit fabrics 2002..	X	D
	1997..	X	45 021
32520003	Manmade fibers, staple, and tow 2002..	X	21 774
	1997..	X	25 735
00999831	All other fibers (cotton, wool, etc.) 2002..	X	D
	1997..	X	N
31311105	Carded cotton yarn 2002..	X	18 607
	1997..	X	43 379
31311107	Combed cotton yarn 2002..	X	29 024
	1997..	X	45 760
31311109	Spun rayon and acetate yarn 2002..	X	1 904
	1997..	X	7 871
31311110	Spun nylon yarn 2002..	X	66 457
	1997..	X	N
31311112	Spun polyester yarns 2002..	X	82 711
	1997..	X	N
31311118	All other spun yarns 2002..	X	D
	1997..	X	N
32522210	Nylon filament yarn 2002..	X	63 717
	1997..	X	N
31311115	Acrylic yarns 2002..	X	D
	1997..	X	D
32522220	Polyester filament yarn 2002..	X	156 441
	1997..	X	N
31311001	All other yarns 2002..	X	79 525
	1997..	X	167 470
32522206	All other manmade fiber filament yarns 2002..	X	25 088
	1997..	X	N
31321017	Broadwoven fabrics 2002..	X	D
	1997..	X	N
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) 2002..	X	D
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	111 583
	1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	65 811
	1997..	X	95 005
313311	Broadwoven fabric finishing mills		
00900001	Total materials 2002..	X	3 451 095
	1997..	X	4 580 104
31311101	Spun yarn, all fibers mil lb. 2002..	P185.0	210 039
	1997..	569.5	132 602
31321027	Broadwoven fabrics mil sq yd. 2002..	91 513.5	1 845 200
	1997..	6 149.5	2 768 382
32513003	Dyes, lakes, and toners 2002..	X	337 673
	1997..	X	623 158
31324000	Knit fabrics 2002..	X	32 169
	1997..	X	30 623
00970099	All other materials and components, parts, containers, and supplies 2002..	X	370 218
	1997..	X	441 974
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	655 796
	1997..	X	583 365
313312	Textile and fabric finishing (except broadwoven fabric) mills		
00900001	Total materials 2002..	X	1 763 085
	1997..	X	2 224 672
31311101	Spun yarn, all fibers mil lb. 2002..	S	564 379
	1997..	364.3	646 223
31321027	Broadwoven fabrics mil sq yd. 2002..	S	137 922
	1997..	506.1	13 894
32513003	Dyes, lakes, and toners 2002..	X	168 824
	1997..	X	203 640
31324000	Knit fabrics 2002..	X	654 422
	1997..	X	981 758
00970099	All other materials and components, parts, containers, and supplies 2002..	X	124 530
	1997..	X	165 945
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	113 008
	1997..	X	213 212

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
313320	Fabric coating mills		
00900001	Total materials	X	1 121 059
	.....2002..	X	1 144 657
	.....1997..	X	43 002
32520003	Manmade fibers, staple, and tow	X	40 668
	.....2002..	X	32 701
	.....1997..	X	43 520
31311003	Yarn, all fibers	X	40 985
	.....2002..	X	85 041
	.....1997..	X	272 460
31320013	Cotton fabrics	X	213 229
	.....2002..	X	14 055
	.....1997..	X	N
32552008	Adhesives and binders (resins)	X	58 651
	.....2002..	X	N
	.....1997..	X	59 630
32510059	Plasticizers	X	42 334
	.....2002..	X	29 822
	.....1997..	X	54 169
32521139	Vinyl and vinyl copolymer resins (all forms)	X	45 198
	.....2002..	X	38 707
	.....1997..	X	
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	X	41 451
	.....2002..	X	33 641
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	306 690
	.....2002..	X	388 126
	.....1997..	X	176 414
00970099	All other materials and components, parts, containers, and supplies	X	205 222
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
314110	Carpet and rug mills		
00900001	Total materials	X	8 232 394
	.....2002..	X	6 699 004
	.....1997..	X	77 711
31311123	Spun wool and chiefly wool yarns	S	84 414
	..... mil lb. .2002..	31.6	2 126 346
	.....1997..	S	1 525 770
31311111	Spun nylon yarn	S	139 019
	..... mil lb. .2002..	673.9	140 772
	.....1997..	P121.8	119 883
31311113	Spun polyester yarns	S	114 577
	..... mil lb. .2002..	P82.1	32 711
	.....1997..	S	40 355
31311119	All other spun yarns	S	2 579 919
	..... mil lb. .2002..	P19.2	2 171 547
	.....1997..	S	57 815
32522211	Nylon filament yarn	S	42 466
	..... mil lb. .2002..	1 096.4	506 248
	.....1997..	S	445 042
32522221	Polyester filament yarn	S	2 236
	..... mil lb. .2002..	487.5	D
	.....1997..	4.0	D
32522231	Polypropylene filament yarns	S	D
	..... mil lb. .2002..	D	D
	.....1997..	D	D
32522207	All other manmade fiber filament yarns	S	121 605
	..... mil lb. .2002..	D	121 815
	.....1997..	S	62 688
32520001	All other manmade fiber staple and tow	S	82 266
	..... mil lb. .2002..	P64.5	D
	.....1997..	S	D
32522215	Nylon staple and tow	S	D
	..... mil lb. .2002..	39.1	D
	.....1997..	D	D
32522217	Polypropylene staple and tow	D	23 820
	..... mil lb. .2002..	927.1	
	.....1997..	D	
32522223	Polyester staple and tow	D	
	..... mil lb. .2002..	3.9	
	.....1997..	D	
00999829	All other fibers (silk, jute, reused wool, waste, etc.)	D	
	..... mil lb. .2002..	S	336 012
	.....1997..	S	315 663
31320017	Polypropylene fiber fabrics primary backing	S	214 265
	..... mil sq yd. .2002..	843.6	137 709
	.....1997..	P711.6	2 225
31320019	All other manmade fiber fabrics primary backing	S	1 690
	..... mil sq yd. .2002..	232.6	49 791
	.....1997..	P3.9	79 574
31320021	All other fabrics (excluding manmade) primary backing	S	36 227
	..... mil sq yd. .2002..	2.2	26 487
	.....1997..	X	
31320031	Jute secondary backing	X	
	.....2002..	X	
	.....1997..	X	
32620003	Foam and high density rubber cushion secondary backing	X	
	.....2002..	X	
	.....1997..	X	
32610041	Other plastics cushion secondary backing (vinyl, polyurethane, etc.)	X	
	.....2002..	X	
	.....1997..	X	
31320023	Woven and nonwoven manmade fiber fabrics secondary backing	X	
	.....2002..	X	
	.....1997..	X	
31320025	All other secondary backing (scrim, solid vinyl, etc.)	X	
	.....2002..	X	
	.....1997..	X	
32513003	Dyes, lakes, and toners	X	
	.....2002..	X	
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
314121	Curtain and drapery mills		
00900001	Total materials	X	581 213
	.....2002..	X	801 883
	.....1997..	X	72 217
31321031	Cotton broadwoven fabrics	X	N
	.....2002..	X	N
	.....1997..	X	51 099
31321033	Rayon and acetate broadwoven fabrics	X	N
	.....2002..	X	N
	.....1997..	X	86 458
31321035	Polyester broadwoven fabrics	X	
2002..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
314912	Canvas and related product mills—Con.		
31311003	Yarn, all fibers	X	8 130
	.....2002..	X	7 403
	.....1997..	X	111 995
31332001	Fabrics (plastics coated, impregnated, and laminated)	X	77 730
	.....2002..	X	10 068
	.....1997..	X	8 919
32520003	Manmade fibers, staple, and tow	X	
	.....2002..	X	14 015
	.....1997..	X	10 154
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	
	.....2002..	X	157 840
	.....1997..	X	199 577
00970099	All other materials and components, parts, containers, and supplies	X	269 874
	.....2002..	X	235 514
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
314991	Rope, cordage, and twine mills		
00900001	Total materials	X	325 368
	.....2002..	X	334 748
	.....1997..	X	82 756
32520003	Manmade fibers, staple, and tow	X	53 093
	.....2002..	X	87 579
	.....1997..	X	85 476
31311003	Yarn, all fibers	X	1 974
	.....2002..	X	N
	.....1997..	X	
31320003	Textile fabrics	X	
	.....2002..	X	58 015
	.....1997..	X	51 354
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	X	
	.....2002..	X	51 637
	.....1997..	X	106 373
00970099	All other materials and components, parts, containers, and supplies	X	43 407
	.....2002..	X	38 452
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
314992	Tire cord and tire fabric mills		
00900001	Total materials	X	757 394
	.....2002..	X	794 146
	.....1997..	X	155 751
32522211	Nylon filament yarn	76.6	223 598
	.....2002..	119.2	386 690
	.....1997..	259.8	304 088
32522221	Polyester filament yarn	171.1	109 915
	.....2002..	X	N
	.....1997..	X	
33120080	Steel rod, for wiredrawing	X	
	.....2002..	X	105 038
	.....1997..	X	262 080
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	4 380
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
314999	All other miscellaneous textile product mills		
00900001	Total materials	X	2 118 902
	.....2002..	X	2 961 193
	.....1997..	X	34 441
00190019	Cotton waste	X	40 091
	.....2002..	X	14 090
	.....1997..	X	N
31122304	Cotton linters	X	N
	.....2002..	X	18 561
	.....1997..	X	N
32522104	Rayon and acetate staple and tow	X	N
	.....2002..	X	186 491
	.....1997..	X	N
32522200	Noncellulosic (polyester, nylon, etc.) fibers	X	
	.....2002..	X	222 753
	.....1997..	X	243 547
31311003	Yarn, all fibers	X	214 361
	.....2002..	X	N
	.....1997..	X	
31321017	Broadwoven fabrics	X	29 117
	.....2002..	X	24 683
	.....1997..	X	28 747
31322103	Narrow fabrics (12 inches or less in width)	X	66 307
	.....2002..	X	16 670
	.....1997..	X	N
31332001	Fabrics (plastics coated, impregnated, and laminated)	X	
	.....2002..	X	47 446
	.....1997..	X	73 314
32552008	Adhesives and binders (resins)	X	18 477
	.....2002..	X	36 579
	.....1997..	X	8 441
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	X	14 591
	.....2002..	X	21 630
	.....1997..	X	240 210
32221001	Paperboard containers, boxes, and corrugated paperboard	X	53 927
	.....2002..	X	N
	.....1997..	X	
32513003	Dyes, lakes, and toners	X	
	.....2002..	X	24 877
	.....1997..	X	24 269
31500000	Garments, purchased to be printed and resold	X	
	.....2002..	X	502 912
	.....1997..	X	1 931 267
31500002	Garments, purchased to be embroidered and resold	X	675 961
	.....2002..	X	266 335
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	
	.....2002..	X	
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
315111	Sheer hosiery mills		
00900001	Total materials	X	461 068
	.....2002..	X	768 876
	.....1997..	X	20 722
31511101	Hosiery, shipped in the greige (excluding pantyhose)	X	28 584
	.....2002..	X	61 686
	.....1997..	X	120 070
31511103	Pantyhose, shipped in the greige	X	
2002..	X	
1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315111	Sheer hosiery mills—Con.		
31311103	Cotton yarns2002..	X	21 706
	1997..	X	32 113
31311110	Spun nylon yarn2002..	X	83 917
	1997..	X	N
31311115	Acrylic yarns2002..	X	D
	1997..	X	9 791
32522210	Nylon filament yarn2002..	X	61 977
	1997..	X	N
32522229	Spandex filament yarns2002..	X	44 391
	1997..	X	82 800
31311001	All other yarns2002..	X	D
	1997..	X	9 345
00190003	Flexible packaging materials2002..	X	16 784
	1997..	X	34 823
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	28 741
	1997..	X	40 577
00970099	All other materials and components, parts, containers, and supplies2002..	X	32 829
	1997..	X	369 979
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	21 898
	1997..	X	40 794
315119	Other hosiery and sock mills		
00900001	Total materials2002..	X	918 783
	1997..	X	1 255 207
31511101	Hosiery, shipped in the greige (excluding pantyhose)2002..	X	307 363
	1997..	X	340 269
31311103	Cotton yarns2002..	X	216 298
	1997..	X	386 079
31311110	Spun nylon yarn2002..	X	20 736
	1997..	X	N
31311115	Acrylic yarns2002..	X	25 368
	1997..	X	49 822
32522210	Nylon filament yarn2002..	X	25 968
	1997..	X	N
32522229	Spandex filament yarns2002..	X	21 136
	1997..	X	22 746
31311001	All other yarns2002..	X	97 269
	1997..	X	85 138
00190003	Flexible packaging materials2002..	X	37 157
	1997..	X	37 234
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	30 251
	1997..	X	31 399
00970099	All other materials and components, parts, containers, and supplies2002..	X	87 321
	1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	49 916
	1997..	X	D
315191	Outerwear knitting mills		
00900001	Total materials2002..	X	621 727
	1997..	X	1 878 009
32520003	Manmade fibers, staple, and tow2002..	X	D
	1997..	X	5 016
00999831	All other fibers (cotton, wool, etc.)2002..	X	3 712
	1997..	X	N
31311105	Carded cotton yarn2002..	X	214 342
	1997..	X	560 605
31311107	Combed cotton yarn2002..	X	60 455
	1997..	X	82 013
31311109	Spun rayon and acetate yarn2002..	X	3 331
	1997..	X	2 505
31311110	Spun nylon yarn2002..	X	D
	1997..	X	N
31311112	Spun polyester yarns2002..	X	1 252
	1997..	X	N
31311115	Acrylic yarns2002..	X	24 218
	1997..	X	46 885
31311118	All other spun yarns2002..	X	2 344
	1997..	X	N
32522210	Nylon filament yarn2002..	X	2 656
	1997..	X	N
32522220	Polyester filament yarn2002..	X	140
	1997..	X	N
31311001	All other yarns2002..	X	5 147
	1997..	X	11 528
31324000	Knit fabrics2002..	X	13 714
	1997..	X	327 547
31321017	Broadwoven fabrics2002..	X	1 701
	1997..	X	N
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)2002..	X	12 562
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners2002..	X	2 754
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	118 137
	1997..	X	568 693
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	150 413
	1997..	X	273 217

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315192	Underwear and nightwear knitting mills		
00900001	Total materials .....2002..	X	386 877
	.....1997..	X	264 092
31324000	Knit fabrics .....2002..	X	102 088
	.....1997..	X	33 411
31311105	Carded cotton yarn .....2002..	X	D
	.....1997..	X	87 756
31311107	Combed cotton yarn .....2002..	X	D
	.....1997..	X	D
31311109	Spun rayon and acetate yarn .....2002..	X	D
	.....1997..	X	N
31311110	Spun nylon yarn .....2002..	X	D
	.....1997..	X	N
31311112	Spun polyester yarns .....2002..	X	D
	.....1997..	X	N
32522210	Nylon filament yarn .....2002..	X	D
	.....1997..	X	N
31311115	Acrylic yarns .....2002..	X	D
	.....1997..	D	D
32522220	Polyester filament yarn .....2002..	X	D
	.....1997..	X	N
32522206	All other manmade fiber filament yarns .....2002..	X	D
	.....1997..	X	N
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	9 238
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	22 076
	.....1997..	X	91 450
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	40 591
	.....1997..	X	10 571
315211	Men's and boys' cut and sew apparel contractors		
00900001	Total materials .....2002..	X	79 976
	.....1997..	X	206 542
31321023	Broadwoven fabrics (piece goods) .....2002..	X	14 958
	.....1997..	X	57 667
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	D
	.....1997..	X	10 471
31324000	Knit fabrics .....2002..	X	8 690
	.....1997..	X	40 009
31311003	Yarn, all fibers .....2002..	X	D
	.....1997..	X	5 316
33999301	Buttons, zippers, and slide fasteners .....2002..	X	4 151
	.....1997..	X	11 667
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	7 018
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	12 045
	.....1997..	X	35 706
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	27 662
	.....1997..	X	45 706
315212	Women's, girls', and infants' cut and sew apparel contractors		
00900001	Total materials .....2002..	X	381 130
	.....1997..	X	416 638
31321023	Broadwoven fabrics (piece goods) .....2002..	X	23 158
	.....1997..	X	49 019
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	822
	.....1997..	X	5 299
31324000	Knit fabrics .....2002..	X	22 965
	.....1997..	X	45 103
31311003	Yarn, all fibers .....2002..	X	2 847
	.....1997..	X	10 673
33999301	Buttons, zippers, and slide fasteners .....2002..	X	1 712
	.....1997..	X	7 801
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	9 541
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	28 721
	.....1997..	X	34 319
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	291 364
	.....1997..	X	264 424
315221	Men's and boys' cut and sew underwear and nightwear manufacturing		
00900001	Total materials .....2002..	X	104 690
	.....1997..	X	536 802
31321023	Broadwoven fabrics (piece goods) .....2002..	X	41 189
	.....1997..	X	69 374
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	D
	.....1997..	X	7 380
31324000	Knit fabrics .....2002..	X	43 799
	.....1997..	X	173 941
31311003	Yarn, all fibers2002..	X	2 830
1997..	X	D

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315221	Men's and boys' cut and sew underwear and nightwear manufacturing—Con.		
33999301	Buttons, zippers, and slide fasteners .....2002..	X	685
	.....1997..	X	D
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	2 960
	.....1997..	X	N
32513003	Dyes, lakes, and toners .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	3 820
	.....1997..	X	46 963
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	7 302
	.....1997..	X	75 790
315222	Men's and boys' cut and sew suit, coat, and overcoat manufacturing		
00900001	Total materials .....2002..	X	290 988
	.....1997..	X	777 249
31321023	Broadwoven fabrics (piece goods) .....2002..	X	139 344
	.....1997..	X	504 438
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	3 463
	.....1997..	X	40 815
31324000	Knit fabrics .....2002..	X	D
	.....1997..	X	6 468
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	D
	.....1997..	X	N
31311003	Yarn, all fibers .....2002..	X	68
	.....1997..	X	6 836
31611001	Finished leather .....2002..	X	397
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners .....2002..	X	9 802
	.....1997..	X	37 690
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	33 973
	.....1997..	X	N
32513003	Dyes, lakes, and toners .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	14 353
	.....1997..	X	75 468
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	44 274
	.....1997..	X	105 534
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing		
00900001	Total materials .....2002..	X	576 151
	.....1997..	X	2 839 338
31321023	Broadwoven fabrics (piece goods) .....2002..	X	120 673
	.....1997..	X	363 347
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	D
	.....1997..	X	66 926
31324000	Knit fabrics .....2002..	X	227 412
	.....1997..	X	1 553 915
31311003	Yarn, all fibers .....2002..	X	12 586
	.....1997..	X	59 071
31611001	Finished leather .....2002..	X	D
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners .....2002..	X	2 696
	.....1997..	X	54 720
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	11 471
	.....1997..	X	N
32513003	Dyes, lakes, and toners .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	59 098
	.....1997..	X	503 743
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	140 222
	.....1997..	X	237 616
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing		
00900001	Total materials .....2002..	X	1 492 492
	.....1997..	X	2 800 674
31321023	Broadwoven fabrics (piece goods) .....2002..	X	1 020 262
	.....1997..	X	1 078 126
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	D
	.....1997..	X	D
31324000	Knit fabrics .....2002..	X	D
	.....1997..	X	55 626
31311003	Yarn, all fibers .....2002..	X	3 382
	.....1997..	X	28 994
31611001	Finished leather .....2002..	X	D
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners .....2002..	X	57 383
	.....1997..	X	130 920
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	136 486
	.....1997..	X	N
32513003	Dyes, lakes, and toners .....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	6 508
	.....1997..	X	185 203
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	446
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315225	Men's and boys' cut and sew work clothing manufacturing		
00900001	Total materials	X	881 494
	.....2002..	X	836 780
	.....1997..	X	593 592
31321023	Broadwoven fabrics (piece goods)	X	542 558
	.....2002..	X	22 476
	.....1997..	X	D
31322103	Narrow fabrics (12 inches or less in width)	X	96 811
	.....2002..	X	18 815
	.....1997..	X	D
31324000	Knit fabrics	X	D
	.....2002..	X	N
	.....1997..	X	N
31332001	Fabrics (plastics coated, impregnated, and laminated)	X	D
	.....2002..	X	N
	.....1997..	X	N
31311003	Yarn, all fibers	X	D
	.....2002..	X	D
	.....1997..	X	D
31611001	Finished leather	X	N
	.....2002..	X	N
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners	X	10 836
	.....2002..	X	73 418
	.....1997..	X	
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)	X	35 858
	.....2002..	X	N
	.....1997..	X	N
32513003	Dyes, lakes, and toners	X	D
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	15 944
	.....2002..	X	58 329
	.....1997..	X	104 151
00971000	Materials, ingredients, containers, and supplies, nsk	X	48 318
	.....2002..	X	
	.....1997..	X	
315228	Men's and boys' cut and sew other outerwear manufacturing		
00900001	Total materials	X	448 581
	.....2002..	X	698 205
	.....1997..	X	83 302
31321023	Broadwoven fabrics (piece goods)	X	271 708
	.....2002..	X	D
	.....1997..	X	D
31322103	Narrow fabrics (12 inches or less in width)	X	14 824
	.....2002..	X	164 443
	.....1997..	X	148 220
31324000	Knit fabrics	X	D
	.....2002..	X	N
	.....1997..	X	N
31332001	Fabrics (plastics coated, impregnated, and laminated)	X	9 615
	.....2002..	X	19 835
	.....1997..	X	7 988
31611001	Finished leather	X	N
	.....2002..	X	N
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners	X	5 667
	.....2002..	X	29 436
	.....1997..	X	
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)	X	9 349
	.....2002..	X	N
	.....1997..	X	N
32513003	Dyes, lakes, and toners	X	D
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	52 733
	.....2002..	X	65 986
	.....1997..	X	104 581
00971000	Materials, ingredients, containers, and supplies, nsk	X	148 196
	.....2002..	X	
	.....1997..	X	
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing		
00900001	Total materials	X	970 562
	.....2002..	X	1 689 651
	.....1997..	X	188 611
31321023	Broadwoven fabrics (piece goods)	X	238 836
	.....2002..	X	48 573
	.....1997..	X	103 147
31322103	Narrow fabrics (12 inches or less in width)	X	613 711
	.....2002..	X	1 061 383
	.....1997..	X	D
31324000	Knit fabrics	X	N
	.....2002..	X	14 420
	.....1997..	X	36 764
31611001	Finished leather	X	D
	.....2002..	X	N
	.....1997..	X	N
33999301	Buttons, zippers, and slide fasteners	X	10 332
	.....2002..	X	31 170
	.....1997..	X	
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)	X	14 234
	.....2002..	X	N
	.....1997..	X	N
32513003	Dyes, lakes, and toners	X	D
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	20 806
	.....2002..	X	93 609
	.....1997..	X	49 150
00971000	Materials, ingredients, containers, and supplies, nsk	X	124 742
	.....2002..	X	
	.....1997..	X	
315232	Women's and girls' cut and sew blouse and shirt manufacturing		
00900001	Total materials	X	1 366 364
	.....2002..	X	1 529 919
	.....1997..	X	539 819
31321023	Broadwoven fabrics (piece goods)	X	528 097
	.....2002..	X	59 572
	.....1997..	X	68 985
31322103	Narrow fabrics (12 inches or less in width)	X	359 759
	.....2002..	X	515 299
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315232	Women's and girls' cut and sew blouse and shirt manufacturing—Con.		
31332001	Fabrics (plastics coated, impregnated, and laminated) 2002..	X	D
	1997..	X	N
31311003	Yarn, all fibers 2002..	X	57 614
	1997..	X	89 840
31611001	Finished leather 2002..	X	D
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	54 600
	1997..	X	62 765
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) 2002..	X	28 848
	1997..	X	N
32513003	Dyes, lakes, and toners 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	70 129
	1997..	X	83 702
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	188 151
	1997..	X	181 231
315233	Women's and girls' cut and sew dress manufacturing		
00900001	Total materials 2002..	X	1 230 189
	1997..	X	1 842 491
31321023	Broadwoven fabrics (piece goods) 2002..	X	377 252
	1997..	X	858 014
31322103	Narrow fabrics (12 inches or less in width) 2002..	X	616
	1997..	X	141 818
31324000	Knit fabrics 2002..	X	284 167
	1997..	X	305 769
31332001	Fabrics (plastics coated, impregnated, and laminated) 2002..	X	D
	1997..	X	N
31311003	Yarn, all fibers 2002..	X	D
	1997..	X	57 227
31611001	Finished leather 2002..	X	398
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	32 864
	1997..	X	90 385
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) 2002..	X	D
	1997..	X	N
32513003	Dyes, lakes, and toners 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	80 216
	1997..	X	63 912
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	344 319
	1997..	X	325 366
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing		
00900001	Total materials 2002..	X	419 175
	1997..	X	1 199 530
31321023	Broadwoven fabrics (piece goods) 2002..	X	260 542
	1997..	X	795 232
31322103	Narrow fabrics (12 inches or less in width) 2002..	X	D
	1997..	X	36 958
31324000	Knit fabrics 2002..	X	15 425
	1997..	X	96 631
31332001	Fabrics (plastics coated, impregnated, and laminated) 2002..	X	D
	1997..	X	N
31311003	Yarn, all fibers 2002..	X	D
	1997..	X	21 114
31611001	Finished leather 2002..	X	D
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	7 064
	1997..	X	70 340
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) 2002..	X	32 500
	1997..	X	N
32513003	Dyes, lakes, and toners 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	26 755
	1997..	X	30 381
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	63 518
	1997..	X	148 874
315239	Women's and girls' cut and sew other outerwear manufacturing		
00900001	Total materials 2002..	X	1 529 170
	1997..	X	2 815 083
31321023	Broadwoven fabrics (piece goods) 2002..	X	716 464
	1997..	X	1 335 753
31322103	Narrow fabrics (12 inches or less in width) 2002..	X	7 230
	1997..	X	360 759
31324000	Knit fabrics 2002..	X	348 904
	1997..	X	463 061
31332001	Fabrics (plastics coated, impregnated, and laminated) 2002..	X	715
	1997..	X	N
31311003	Yarn, all fibers 2002..	X	8 989
	1997..	X	68 287
31611001	Finished leather 2002..	X	2 402
	1997..	X	N
33999301	Buttons, zippers, and slide fasteners 2002..	X	58 091
	1997..	X	150 841

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315239	Women's and girls' cut and sew other outerwear manufacturing—Con.		
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)2002..	X	60 323
	1997..	X	N
32513003	Dyes, lakes, and toners2002..	X	1 024
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	83 434
	1997..	X	151 051
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	241 594
	1997..	X	285 331
315291	Infants' cut and sew apparel manufacturing		
00900001	Total materials2002..	X	119 526
	1997..	X	377 789
31321023	Broadwoven fabrics (piece goods)2002..	X	12 775
	1997..	X	143 706
31322103	Narrow fabrics (12 inches or less in width)2002..	X	D
	1997..	X	2 734
31324000	Knit fabrics2002..	X	D
	1997..	X	159 760
33999301	Buttons, zippers, and slide fasteners2002..	X	10 247
	1997..	X	17 398
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	2 164
	1997..	X	38 057
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	8 961
	1997..	X	16 134
315292	Fur and leather apparel manufacturing		
00900001	Total materials2002..	X	78 465
	1997..	X	109 468
31321023	Broadwoven fabrics (piece goods)2002..	X	472
	1997..	X	2 782
31322103	Narrow fabrics (12 inches or less in width)2002..	X	D
	1997..	X	566
31324000	Knit fabrics2002..	X	59
	1997..	X	D
31332001	Fabrics (plastics coated, impregnated, and laminated)2002..	X	D
	1997..	X	N
31311003	Yarn, all fibers2002..	X	9
	1997..	X	D
31611001	Finished leather2002..	X	14 823
	1997..	X	28 024
33999301	Buttons, zippers, and slide fasteners2002..	X	2 119
	1997..	X	2 333
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)2002..	X	1 649
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	16 376
	1997..	X	11 441
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	42 216
	1997..	X	63 070
315299	All other cut and sew apparel manufacturing		
00900001	Total materials2002..	X	328 714
	1997..	X	315 080
31321023	Broadwoven fabrics (piece goods)2002..	X	89 510
	1997..	X	102 105
31322103	Narrow fabrics (12 inches or less in width)2002..	X	5 324
	1997..	X	10 699
31324000	Knit fabrics2002..	X	103 560
	1997..	X	61 513
31332001	Fabrics (plastics coated, impregnated, and laminated)2002..	X	5 566
	1997..	X	N
31311003	Yarn, all fibers2002..	X	1 652
	1997..	X	7 009
31611001	Finished leather2002..	X	181
	1997..	X	D
33999301	Buttons, zippers, and slide fasteners2002..	X	4 521
	1997..	X	5 494
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.)2002..	X	10 412
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	40 289
	1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	67 699
	1997..	X	D
315991	Hat, cap, and millinery manufacturing		
00900001	Total materials2002..	X	202 554
	1997..	X	345 804
31322103	Narrow fabrics (12 inches or less in width)2002..	X	2 480
	1997..	X	24 415
31323003	Wool felt2002..	X	16 320
	1997..	X	24 714
31599100	Hat bodies2002..	X	20 164
	1997..	X	48 815
31311003	Yarn, all fibers2002..	X	24 589
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
315991	Hat, cap, and millinery manufacturing—Con.		
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	18 169
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	51 583
	.....1997..	X	218 811
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	69 249
	.....1997..	X	29 049
315992	Glove and mitten manufacturing		
00900001	Total materials .....2002..	X	85 183
	.....1997..	X	176 852
31321023	Broadwoven fabrics (piece goods) .....2002..	X	20 845
	.....1997..	X	30 061
31324000	Knit fabrics .....2002..	X	6 882
	.....1997..	X	26 994
31311003	Yarn, all fibers .....2002..	X	3 676
	.....1997..	X	17 496
31611013	Leather .....2002..	X	20 902
	.....1997..	X	38 384
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	8 474
	.....1997..	X	38 270
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	24 404
	.....1997..	X	25 647
315993	Men's and boys' neckwear manufacturing		
00900001	Total materials .....2002..	X	138 148
	.....1997..	X	219 920
31321023	Broadwoven fabrics (piece goods) .....2002..	X	103 428
	.....1997..	X	153 166
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	19 554
	.....1997..	X	39 289
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	7 379
	.....1997..	X	15 022
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	7 787
	.....1997..	X	12 443
315999	Other apparel accessories and other apparel manufacturing		
00900001	Total materials .....2002..	X	565 365
	.....1997..	X	951 200
31321023	Broadwoven fabrics (piece goods) .....2002..	X	33 737
	.....1997..	X	172 647
31322103	Narrow fabrics (12 inches or less in width) .....2002..	X	8 318
	.....1997..	X	10 866
31324000	Knit fabrics .....2002..	X	D
	.....1997..	X	D
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	18 216
	.....1997..	X	84 226
31311003	Yarn, all fibers .....2002..	X	42 181
	.....1997..	X	45 806
31611001	Finished leather .....2002..	X	102 284
	.....1997..	X	148 047
33999301	Buttons, zippers, and slide fasteners .....2002..	X	4 273
	.....1997..	X	5 431
00190067	Trim and findings (linings, fusibles, elastic, waistbanding, pockets, etc.) .....2002..	X	D
	.....1997..	X	N
32513003	Dyes, lakes, and toners .....2002..	X	548
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	150 444
	.....1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	189 445
	.....1997..	X	D
316110	Leather and hide tanning and finishing		
00900001	Total materials .....2002..	X	1 112 189
	.....1997..	X	2 017 195
31161119	Hides, skins, and pelts .....2002..	X	970 462
	.....1997..	X	1 498 738
32500025	Tanning materials, dressings, dyes, and finishing agents .....2002..	X	154 909
	.....1997..	X	257 834
31611003	Finished upper leather .....2002..	X	D
	.....1997..	X	69 786
31611007	All other finished leather .....2002..	X	D
	.....1997..	X	19 107
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	27 142
	.....1997..	X	90 165
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	S
	.....1997..	X	81 565
316211	Rubber and plastics footwear manufacturing		
00900001	Total materials .....2002..	X	197 306
	.....1997..	X	384 583
11321001	Natural rubber .....2002..	X	D
	.....1997..	X	12 109
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	8 647
	.....1997..	X	49 660
32521201	Synthetic rubber (including vulcanizable elastomers) .....2002..	X	3 813
	.....1997..	X	14 008

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
316211	Rubber and plastics footwear manufacturing—Con.		
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.) .....2002..	X	921
	.....1997..	X	8 039
32500053	All other chemicals and allied products (excluding plastics resins, synthetic rubber, rubber processing chemicals, plasticizers, and glues and adhesives) .....2002..	X	D
	.....1997..	X	5 943
31320003	Textile fabrics .....2002..	X	D
	.....1997..	X	53 616
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	6 473
	.....1997..	X	13 677
32600055	Rubber and plastics shoe heels and soles .....2002..	X	43 030
	.....1997..	X	55 298
31699905	Leather and other material cut stock and findings (excluding outsoles and insoles) .....2002..	X	D
	.....1997..	X	15 047
32600057	Other plastics and rubber (natural and synthetic) parts .....2002..	X	D
	.....1997..	X	15 725
31611009	Finished upper leather mil sq ft. ....2002..	D	D
	.....1997..	S	26 686
31611011	Finished sole leather mil pairs .....2002..	D	D
	.....1997..	D	D
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	D
	.....1997..	X	7 399
00190095	Sewn uppers, purchased (not manufactured with materials produced in the same establishment) .....2002..	X	47 251
	.....1997..	X	41 484
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	42 500
	.....1997..	X	49 291
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	3 982
	.....1997..	X	15 449
316212	House slipper manufacturing		
00900001	Total materials .....2002..	X	33 676
	.....1997..	X	69 842
32521201	Synthetic rubber (including vulcanizable elastomers) .....2002..	X	D
	.....1997..	X	D
31320003	Textile fabrics .....2002..	X	D
	.....1997..	X	7 523
31611009	Finished upper leather mil sq ft. ....2002..	S	8 731
	.....1997..	S	17 521
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	D
	.....1997..	X	17 096
00190095	Sewn uppers, purchased (not manufactured with materials produced in the same establishment) .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	6 693
	.....1997..	X	24 316
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 249
	.....1997..	X	2 626
316213	Men's footwear (except athletic) manufacturing		
00900001	Total materials .....2002..	X	487 228
	.....1997..	X	807 040
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	X	9 885
32552002	Glues and adhesives .....2002..	X	3 812
	.....1997..	X	N
31320003	Textile fabrics .....2002..	X	14 326
	.....1997..	X	31 971
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	11 543
	.....1997..	X	20 520
32600055	Rubber and plastics shoe heels and soles .....2002..	X	56 160
	.....1997..	X	49 011
32600035	Composition cut stock and findings .....2002..	X	D
	.....1997..	X	30 552
31611005	Other finished leather mil sq ft. ....2002..	D	D
	.....1997..	28.7	14 577
32600057	Other plastics and rubber (natural and synthetic) parts .....2002..	X	15 305
	.....1997..	X	10 765
31611009	Finished upper leather mil sq ft. ....2002..	S	177 553
	.....1997..	S	321 777
31699903	Outer soles and insoles of leather (finished soles and blockers) .....2002..	X	13 218
	.....1997..	X	19 906
31611011	Finished sole leather mil pairs .....2002..	S	17 305
	.....1997..	S	32 483
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	D
	.....1997..	X	15 596
00190095	Sewn uppers, purchased (not manufactured with materials produced in the same establishment) .....2002..	X	22 152
	.....1997..	X	35 070
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	72 823
	.....1997..	X	176 877
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	26 212
	.....1997..	X	38 050

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
316214	Women's footwear (except athletic) manufacturing		
00900001	Total materials .....2002..	X	91 908
	.....1997..	X	268 807
31320003	Textile fabrics .....2002..	X	D
	.....1997..	X	10 101
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	3 416
	.....1997..	X	25 699
32600055	Rubber and plastics shoe heels and soles .....2002..	X	4 462
	.....1997..	X	9 526
32600035	Composition cut stock and findings .....2002..	X	D
	.....1997..	X	12 956
31611009	Finished upper leather mil sq ft. ....2002..	S	36 937
	.....1997..	S	91 590
31611011	Finished sole leather mil pairs .....2002..	D	D
	.....1997..	D	16 814
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	12 667
	.....1997..	X	16 724
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	14 227
	.....1997..	X	39 613
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	8 369
	.....1997..	X	45 784
316219	Other footwear manufacturing		
00900001	Total materials .....2002..	X	43 908
	.....1997..	X	78 261
31320003	Textile fabrics .....2002..	X	1 315
	.....1997..	X	1 868
32600055	Rubber and plastics shoe heels and soles .....2002..	X	D
	.....1997..	X	2 816
31611009	Finished upper leather mil sq ft. ....2002..	S	8 080
	.....1997..	S	22 843
3169903	Outer soles and innersoles of leather (finished soles and blockers) .....2002..	X	D
	.....1997..	X	1 837
31611011	Finished sole leather mil pairs .....2002..	D	D
	.....1997..	D	3 777
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	D
	.....1997..	X	2 902
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	15 188
	.....1997..	X	26 379
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	11 903
	.....1997..	X	15 839
316991	Luggage manufacturing		
00900001	Total materials .....2002..	X	135 195
	.....1997..	X	377 097
31161119	Hides, skins, and pelts .....2002..	X	3 693
	.....1997..	X	N
32500025	Tanning materials, dressings, dyes, and finishing agents .....2002..	X	D
	.....1997..	X	N
31611003	Finished upper leather .....2002..	X	D
	.....1997..	X	N
31611010	Finished sole leather .....2002..	X	D
	.....1997..	X	N
31611007	All other finished leather .....2002..	X	3 284
	.....1997..	X	N
31321023	Broadwoven fabrics (piece goods) .....2002..	X	49 628
	.....1997..	X	84 607
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	11 132
	.....1997..	X	33 295
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	X	8 152
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	6 400
	.....1997..	X	30 874
33251017	Trunk and luggage hardware (including locks) .....2002..	X	7 330
	.....1997..	X	38 021
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	23 215
	.....1997..	X	118 737
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	27 141
	.....1997..	X	63 411
316992	Women's handbag and purse manufacturing		
00900001	Total materials .....2002..	X	53 652
	.....1997..	X	98 998
31161119	Hides, skins, and pelts .....2002..	X	D
	.....1997..	X	N
31611007	All other finished leather .....2002..	X	D
	.....1997..	X	N
31321023	Broadwoven fabrics (piece goods) .....2002..	X	23 692
	.....1997..	X	4 333
31332001	Fabrics (plastics coated, impregnated, and laminated) .....2002..	X	2 120
	.....1997..	X	9 912
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	D
	.....1997..	X	3 065
33251017	Trunk and luggage hardware (including locks) .....2002..	X	D
	.....1997..	X	1 573
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	10 912
	.....1997..	X	62 816

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
316992	Women's handbag and purse manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	9 088
	1997..	X	17 299
316993	Personal leather goods (except women's handbag and purse) manufacturing		
00900001	Total materials2002..	X	103 209
	1997..	X	118 516
31161119	Hides, skins, and pelts2002..	X	1 803
	1997..	X	N
32500025	Tanning materials, dressings, dyes, and finishing agents2002..	X	D
	1997..	X	N
31611003	Finished upper leather2002..	X	D
	1997..	X	N
31611010	Finished sole leather2002..	X	D
	1997..	X	N
31611007	All other finished leather2002..	X	16 934
	1997..	X	N
31321023	Broadwoven fabrics (piece goods)2002..	X	3 279
	1997..	X	14 724
31332001	Fabrics (plastics coated, impregnated, and laminated)2002..	X	5 117
	1997..	X	12 796
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	D
	1997..	X	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes2002..	X	1 685
	1997..	X	D
33251017	Trunk and luggage hardware (including locks)2002..	X	D
	1997..	X	2 115
00970099	All other materials and components, parts, containers, and supplies2002..	X	39 635
	1997..	X	115 525
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	23 450
	1997..	X	S
316999	All other leather goods manufacturing		
00900001	Total materials2002..	X	203 008
	1997..	X	344 471
31161119	Hides, skins, and pelts2002..	X	15 074
	1997..	X	D
32500025	Tanning materials, dressings, dyes, and finishing agents2002..	X	421
	1997..	X	D
31611003	Finished upper leather2002..	X	2 372
	1997..	X	D
31611010	Finished sole leather2002..	X	D
	1997..	X	N
31611007	All other finished leather2002..	X	18 740
	1997..	X	4 003
31321023	Broadwoven fabrics (piece goods)2002..	X	14 222
	1997..	X	15 096
31332001	Fabrics (plastics coated, impregnated, and laminated)2002..	X	10 488
	1997..	X	6 827
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	D
	1997..	X	331
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes2002..	X	3 199
	1997..	X	4 449
33251017	Trunk and luggage hardware (including locks)2002..	X	D
	1997..	X	4 329
00970099	All other materials and components, parts, containers, and supplies2002..	X	57 032
	1997..	X	198 997
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	73 328
	1997..	X	95 652
321113	Sawmills		
00900001	Total materials2002..	X	13 201 933
	1997..	X	14 780 712
11311000	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)2002..	X	1 802 585
	1997..	X	2 198 406
11331015	Hardwood logs and bolts mil bd ft Intl 1/4 in. scale2002..	S	1 400 330
	1997..	S	1 375 891
11331017	Softwood logs and bolts mil bd ft Intl 1/4 in. scale2002..	915 282.2	5 314 067
	1997..	S	6 722 869
32100023	Hardwood rough lumber mil bd ft2002..	S	211 879
	1997..	9237.0	152 355
32100029	Softwood rough lumber mil bd ft2002..	P467.9	142 806
	1997..	P442.9	162 919
32100027	Hardwood dressed lumber mil bd ft2002..	S	15 912
	1997..	S	21 214
32100033	Softwood dressed lumber mil bd ft2002..	P261.8	97 845
	1997..	P270.0	116 884
32552003	Glues and adhesives mil lb2002..	S	28 362
	1997..	S	13 770
00970099	All other materials and components, parts, containers, and supplies2002..	X	824 607
	1997..	X	621 137
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	3 363 540
	1997..	X	3 395 267

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321114	Wood preservation		
00900001	Total materials2002..	X	3 400 935
	1997..	X	3 402 869
11331013	Poles, piling, and other round or hewn wood products2002..	X	229 752
	1997..	X	258 552
32100022	Hardwood lumber, rough2002..	X	283 089
	1997..	X	N
32100029	Softwood rough lumber mil bd ft . .2002..	P1 813.2	713 046
	1997..	P1 492.4	649 353
32100021	Dressed lumber mil bd ft . .2002..	P2 941.0	1 079 748
	1997..	3 142.4	1 436 824
32519219	Creosote oil consumed in the same establishment mil gal. .2002..	P47.3	48 100
	1997..	P41.7	36 215
32519203	Pentachlorophenol2002..	X	22 543
	1997..	X	23 636
32518801	Waterborne preservatives mil lb. .2002..	966.8	112 737
	1997..	955.0	101 771
00970099	All other materials and components, parts, containers, and supplies2002..	X	263 050
	1997..	X	288 996
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	648 870
	1997..	X	607 522
321211	Hardwood veneer and plywood manufacturing		
00900001	Total materials2002..	X	1 763 725
	1997..	X	1 608 033
11311000	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)2002..	X	76 977
	1997..	X	26 302
11331015	Hardwood logs and bolts mil bd ft Intl 1/4 in. scale . .2002..	P735.8	332 551
	1997..	S	309 087
11331017	Softwood logs and bolts mil bd ft Intl 1/4 in. scale . .2002..	D	D
	1997..	S	42 344
32121105	Hardwood veneer mil sq ft sm . .2002..	3 210.2	564 315
	1997..	S	442 298
32121203	Softwood veneer mil sq ft (1 in. basis) . .2002..	882.2	133 557
	1997..	S	93 743
32121101	Hardwood plywood mil sq ft sm . .2002..	200.4	62 580
	1997..	S	98 729
32121903	Particleboard (reconstituted wood) mil sq ft (3/4 in. basis) . .2002..	P177.6	51 052
	1997..	P162.2	51 545
32121907	Medium density fiberboard (MDF) mil sq ft (3/4 in. basis) . .2002..	P120.7	41 136
	1997..	S	70 397
32552002	Glues and adhesives2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	144 421
	1997..	X	145 236
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	302 954
	1997..	X	328 352
321212	Softwood veneer and plywood manufacturing		
00900001	Total materials2002..	X	3 151 972
	1997..	X	3 705 087
11311000	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)2002..	X	385 565
	1997..	X	346 854
11331015	Hardwood logs and bolts mil bd ft Intl 1/4 in. scale . .2002..	D	D
	1997..	S	64 617
11331017	Softwood logs and bolts mil bd ft Intl 1/4 in. scale . .2002..	P4 362.4	1 528 672
	1997..	S	2 145 934
32121105	Hardwood veneer mil sq ft sm . .2002..	D	D
	1997..	S	27 355
32121203	Softwood veneer mil sq ft (1 in. basis) . .2002..	P1 699.2	431 557
	1997..	715.4	362 996
32121903	Particleboard (reconstituted wood) mil sq ft (3/4 in. basis) . .2002..	D	D
	1997..	N	N
32121907	Medium density fiberboard (MDF) mil sq ft (3/4 in. basis) . .2002..	D	D
	1997..	N	N
32552002	Glues and adhesives2002..	X	156 721
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	359 649
	1997..	X	477 797
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	217 219
	1997..	X	279 534
321213	Engineered wood member (except truss) manufacturing		
00900001	Total materials2002..	X	1 239 220
	1997..	X	869 602
32100023	Hardwood rough lumber mil bd ft . .2002..	S	363 938
	1997..	N	N
32100029	Softwood rough lumber mil bd ft . .2002..	960.7	31 157
	1997..	N	N
32100027	Hardwood dressed lumber mil bd ft . .2002..	P3.3	2 437
	1997..	N	N
32100033	Softwood dressed lumber mil bd ft . .2002..	S	176 947
	1997..	P364.1	186 789
32121201	Softwood plywood mil sq ft sm . .2002..	D	D
	1997..	N	N
32742005	Gypsum building board2002..	X	199
	1997..	X	N
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)2002..	X	3 916
	1997..	X	N
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)2002..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321213	Engineered wood member (except truss) manufacturing—Con.		
00190056	Windows and window units, including wood, metal, and vinyl thousands	1997.. X 2002.. S	N 382
32191100	Wood doors and door units	1997.. N 2002.. X	N D
33232103	Metal doors and door units thousands	1997.. X 2002.. D	N D
33711000	Kitchen cabinets, wood	1997.. N 2002.. X 1997.. X	N D N
32121901	Reconstituted wood products (including particleboard, oriented strandboard, medium density fiberboard, and hardboard)	2002.. X	92 300
33232207	Metal siding, including aluminum, steel	1997.. X 2002.. X 1997.. X	88 732 D N
33231201	Fabricated structural iron, steel, and aluminum (including truss plates)	2002.. X 1997.. X	2 116 N
001900B3	Current-carrying wiring devices (including switches, connectors, lampholders, etc.)	2002.. X 1997.. X	D N
31411001	Floor coverings, textile	2002.. X 1997.. X	D N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	436 946 568 160
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	124 928 25 921
321214	Truss manufacturing		
00900001	Total materials	2002.. X 1997.. X	1 942 487 1 800 431
32100023	Hardwood rough lumber mil bd ft	2002.. S 1997.. X	187 308 118 469
32100029	Softwood rough lumber mil bd ft	2002.. S 1997.. S	373 085 219 565
32100027	Hardwood dressed lumber mil bd ft	2002.. S 1997.. S	66 448 63 174
32100033	Softwood dressed lumber mil bd ft	2002.. S 1997.. P1 501.3	504 913 649 414
32121201	Softwood plywood mil sq ft sm	2002.. S 1997.. N	24 588 N
32742005	Gypsum building board	2002.. X 1997.. X	1 025 N
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)	2002.. X 1997.. X	24 576 N
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	2002.. X 1997.. X	906 N
00190056	Windows and window units, including wood, metal, and vinyl thousands	2002.. S 1997.. N	5 868 N
32191100	Wood doors and door units	2002.. X 1997.. X	5 240 N
33232103	Metal doors and door units thousands	2002.. S 1997.. N	2 360 N
33711000	Kitchen cabinets, wood	2002.. X 1997.. X	D N
32121901	Reconstituted wood products (including particleboard, oriented strandboard, medium density fiberboard, and hardboard)	2002.. X 1997.. X	22 650 12 868
33232207	Metal siding, including aluminum, steel	2002.. X 1997.. X	952 N
33231201	Fabricated structural iron, steel, and aluminum (including truss plates)	2002.. X 1997.. X	87 418 81 172
001900B3	Current-carrying wiring devices (including switches, connectors, lampholders, etc.)	2002.. X 1997.. X	56 N
31411001	Floor coverings, textile	2002.. X 1997.. X	D N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	112 086 66 353
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	522 829 589 416
321219	Reconstituted wood product manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 815 762 2 529 153
11331019	Logs and bolts mil bd ft Intl 1/4 in. scale	2002.. 677.5 1997.. S	140 153 80 891
11331021	Pulpwood 1,000 standard cords	2002.. 6 031.3 1997.. P6 811.0	388 054 400 579
32100015	Chips, slabs, edgings, sawdust, and other wood waste (excluding planer shavings) 1,000 s tons	2002.. 7 585.1 1997.. 8 062.4	227 096 243 438
32100017	Planer shavings 1,000 s tons	2002.. 2 470.4 1997.. 4 258.9	93 797 156 008
32121909	Hardboard	2002.. X 1997.. X	85 092 91 365
32121907	Medium density fiberboard (MDF) mil sq ft (3/4 in. basis)	2002.. S 1997.. S	121 207 62 923
32121903	Particleboard (reconstituted wood) mil sq ft (3/4 in. basis)	2002.. S 1997.. S	184 286 186 598
32551003	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied products 1,000 gallons	2002.. 97 734.6	72 570

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321219	Reconstituted wood product manufacturing—Con.		
32552007	Urethane adhesives mil lb (dry basis) .. 1997..	P8 083.6	69 488
	..... 2002..	P77.4	45 612
32521141	Urea and melamine resins mil lb (dry basis) .. 1997..	S	36 078
	..... 2002..	Q2 071.2	264 677
32521143	Phenolic and other tar acid resins mil lb (dry basis) .. 1997..	P2 465.1	331 136
	..... 2002..	758.1	172 650
32410009	Petroleum wax mil lb .. 1997..	446.9	172 516
	..... 2002..	290.3	66 097
00190054	Vinyl and paper overlays mil sq ft sm. .. 1997..	334.2	61 173
	..... 2002..	S	137 891
32521113	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc. 1997..	S	98 570
	..... 2002..	X	58 105
00970099	All other materials and components, parts, containers, and supplies 1997..	X	8 823
	..... 2002..	X	398 042
00971000	Materials, ingredients, containers, and supplies, nsk 1997..	X	272 641
	..... 2002..	X	360 433
	..... 1997..	X	256 926
321911	Wood window and door manufacturing		
00900001	Total materials 2002..	X	5 282 685
	..... 1997..	X	4 498 562
32100022	Hardwood lumber, rough 2002..	X	119 389
	..... 1997..	X	N
32100028	Softwood lumber, rough 2002..	X	184 216
	..... 1997..	X	N
32100026	Hardwood lumber, dressed 2002..	X	125 432
	..... 1997..	X	N
32100032	Softwood lumber, dressed 2002..	X	115 114
	..... 1997..	X	N
32191201	Softwood cut stock 2002..	X	572 207
	..... 1997..	X	579 073
32191203	Hardwood cut stock and dimension (excluding furniture frames) 2002..	X	56 689
	..... 1997..	X	66 552
32121100	Hardwood plywood 2002..	X	36 270
	..... 1997..	X	N
32121200	Softwood plywood 2002..	X	25 841
	..... 1997..	X	N
32121104	Hardwood veneer 2002..	X	154 050
	..... 1997..	X	N
32121902	Particleboard (reconstituted wood) 2002..	X	49 604
	..... 1997..	X	N
32121909	Hardboard 2002..	X	21 588
	..... 1997..	X	59 816
32121906	Medium density fiberboard (MDF) 2002..	X	51 209
	..... 1997..	X	N
32552002	Glues and adhesives 2002..	X	39 752
	..... 1997..	X	N
32721103	Glass (float, sheet and plate) 2002..	X	371 085
	..... 1997..	X	307 949
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 2002..	X	141 707
	..... 1997..	X	122 953
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	51 804
	..... 1997..	X	37 756
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.) 2002..	X	264 872
	..... 1997..	X	210 947
00970099	All other materials and components, parts, containers, and supplies 2002..	X	1 479 527
	..... 1997..	X	1 374 188
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	1 422 329
	..... 1997..	X	1 739 328
321912	Cut stock, resawing lumber, and planing		
00900001	Total materials 2002..	X	3 466 678
	..... 1997..	X	3 599 326
11311000	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment) 2002..	X	67 209
	..... 1997..	X	26 335
11331015	Hardwood logs and bolts mil bd ft Intl 1/4 in. scale .. 2002..	S	83 340
	..... 1997..	S	96 710
11331017	Softwood logs and bolts mil bd ft Intl 1/4 in. scale .. 2002..	S	74 939
	..... 1997..	S	115 983
32100023	Hardwood rough lumber mil bd ft .. 2002..	S	613 830
	..... 1997..	9795.4	589 895
32100029	Softwood rough lumber mil bd ft .. 2002..	S	578 221
	..... 1997..	2 286.9	935 600
32100027	Hardwood dressed lumber mil bd ft .. 2002..	203.9	84 668
	..... 1997..	S	171 834
32100033	Softwood dressed lumber mil bd ft .. 2002..	2 379.5	731 775
	..... 1997..	S	751 339
32552003	Glues and adhesives mil lb .. 2002..	S	6 502
	..... 1997..	N	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	342 114
	..... 1997..	X	117 343
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	884 080
	..... 1997..	X	794 287

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321918	Other millwork (including flooring)		
00900001	Total materials	X	2 979 829
	.....2002..	X	2 426 533
	.....1997..	X	N
11331014	Logs and bolts, hardwood	X	50 551
	.....2002..	X	N
	.....1997..	X	D
11331016	Logs and bolts, softwood	X	N
	.....2002..	X	D
	.....1997..	X	N
32100022	Hardwood lumber, rough	X	511 581
	.....2002..	X	N
	.....1997..	X	N
32100028	Softwood lumber, rough	X	278 433
	.....2002..	X	N
	.....1997..	X	N
32100026	Hardwood lumber, dressed	X	101 177
	.....2002..	X	N
	.....1997..	X	N
32100032	Softwood lumber, dressed	X	112 341
	.....2002..	X	N
	.....1997..	X	N
32191201	Softwood cut stock	X	51 988
	.....2002..	X	75 824
	.....1997..	X	N
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	132 721
	.....2002..	X	N
	.....1997..	X	N
32121100	Hardwood plywood	X	150 408
	.....2002..	X	N
	.....1997..	X	N
32121200	Softwood plywood	X	6 087
	.....2002..	X	N
	.....1997..	X	N
32121104	Hardwood veneer	X	127 816
	.....2002..	X	N
	.....1997..	X	N
32121902	Particleboard (reconstituted wood)	X	8 430
	.....2002..	X	N
	.....1997..	X	N
32121909	Hardboard	X	23 869
	.....2002..	X	N
	.....1997..	X	N
32121906	Medium density fiberboard (MDF)	X	72 674
	.....2002..	X	N
	.....1997..	X	N
32552002	Glues and adhesives	X	33 206
	.....2002..	X	N
	.....1997..	X	D
32721103	Glass (float, sheet and plate)	X	N
	.....2002..	X	N
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	29 109
	.....2002..	X	N
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	20 846
	.....2002..	X	N
	.....1997..	X	N
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)	X	19 759
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	289 313
	.....2002..	X	N
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	X	936 606
	.....2002..	X	687 109
	.....1997..	X	N
321920	Wood container and pallet manufacturing		
00900001	Total materials	X	2 369 621
	.....2002..	X	2 247 608
	.....1997..	X	N
11331019	Logs and bolts	S	108 503
	..... mil bd ft Intl 1/4 in. scale	S	148 944
	.....2002..	S	418 775
	.....1997..	S	401 513
32100023	Hardwood rough lumber	S	145 547
	..... mil bd ft	S	131 836
	.....2002..	S	50 531
	.....1997..	S	103 140
32100029	Softwood rough lumber	S	115 306
	..... mil bd ft	S	153 095
	.....2002..	S	122 294
	.....1997..	S	N
00970099	All other materials and components, parts, containers, and supplies	X	165 832
	.....2002..	X	171 861
	.....1997..	X	1 242 833
00971000	Materials, ingredients, containers, and supplies, nsk	X	S
	.....2002..	X	N
	.....1997..	X	N
321991	Manufactured home (mobile home) manufacturing		
00900001	Total materials	X	3 769 540
	.....2002..	X	5 998 148
	.....1997..	X	N
33100001	Metal mill shapes and forms, including castings (steel, aluminum, etc.)	X	42 744
	.....2002..	X	59 373
	.....1997..	X	14 714
33232203	Steel siding	X	51 962
	.....2002..	X	12 180
	.....1997..	X	28 096
33232205	Aluminum siding	X	85 673
	.....2002..	X	139 996
	.....1997..	X	N
32619903	Vinyl siding	X	N
	.....2002..	X	67 143
	.....1997..	X	97 339
33291300	Metal plumbing fixtures, fittings, and trim (including enameled), excluding forgings	X	155 067
	.....2002..	X	247 026
	.....1997..	X	N
33232101	Metal doors and door units, windows and window units	X	N
	.....2002..	X	57 044
	.....1997..	X	87 779
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	57 179
	.....2002..	X	121 013
	.....1997..	X	108 720
32612200	Plastics fabricated pipe and pipe fittings	X	79 078
	.....2002..	X	N
	.....1997..	X	N
32121003	Plywood	X	N
	.....2002..	X	N
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321991	Manufactured home (mobile home) manufacturing— Con.		
32121902	Particleboard (reconstituted wood)	X	42 952
	2002..	X	N
	1997..	X	
32121905	Oriented strandboard (OSB) and waferboard	X	123 315
	2002..	X	152 431
	1997..	X	145 805
32742001	Gypsum building board (5/16 inch thick)	X	234 253
	2002..	X	65 082
	1997..	X	85 598
32742003	Gypsum building board (greater than 5/16 inch thick)	X	330 566
	2002..	X	N
	1997..	X	
32100020	Lumber, dressed	X	
	2002..	X	109 193
	1997..	X	153 702
32191003	Wood millwork (including molding, doors, and windows)	X	127 751
	2002..	X	133 473
	1997..	X	135 865
33711000	Kitchen cabinets, wood	X	189 691
	2002..	X	44 375
	1997..	X	70 529
31411001	Floor coverings, textile	X	
	2002..	X	69 733
	1997..	X	111 867
32619200	Linoleum and other hard-surfaced floor covering	X	
	2002..	X	81 373
	1997..	X	143 996
00190000	Heating equipment and air-conditioners, including heat pumps	X	82 712
	2002..	X	109 463
	1997..	X	
001900B3	Current-carrying wiring devices (including switches, connectors, lampholders, etc.)	X	
	2002..	X	29 763
	1997..	X	47 272
32799303	Mineral fiber blankets, batts, and boards	X	
	2002..	X	44 779
	1997..	X	72 173
00190046	Loose fill insulating materials (mineral fiber, cellulose fiber, etc.)	X	
	2002..	X	41 653
	1997..	X	47 429
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)	X	
	2002..	X	193 715
	1997..	X	307 029
33710003	Household-type furniture (including tables, sofas, beds, mattresses, etc.)	X	59 857
	2002..	X	81 633
	1997..	X	
001900B2	Household appliances (including refrigerators, cooking equipment, and other household appliances), excluding air conditioners	X	
	2002..	X	193 715
	1997..	X	307 029
32621003	Pneumatic tires and inner tubes	X	59 857
	2002..	X	81 633
	1997..	X	
33600003	Other metal vehicular parts (axles, wheels, brakes, undercarriages, etc.)	X	
	2002..	X	193 119
	1997..	X	325 879
00970099	All other materials and components, parts, containers, and supplies	X	
	2002..	X	385 803
	1997..	X	1 292 692
00971000	Materials, ingredients, containers, and supplies, nsk	X	861 665
	2002..	X	1 527 376
	1997..	X	
321992	Prefabricated wood building manufacturing		
00900001	Total materials	X	1 733 173
	2002..	X	1 599 643
	1997..	X	
32100023	Hardwood rough lumber mil bd ft	S	57 914
	2002..	N	44 019
	1997..	S	101 004
32100029	Softwood rough lumber mil bd ft	S	92 578
	2002..	S	26 555
	1997..	S	17 254
32100027	Hardwood dressed lumber mil bd ft	S	229 129
	2002..	S	229 587
	1997..	S	
32100033	Softwood dressed lumber mil bd ft	P660.1	
	2002..	9549.0	
	1997..		
32121201	Softwood plywood mil sq ft sm	9144.9	49 636
	2002..	S	48 010
	1997..	X	20 122
32742005	Gypsum building board	X	21 810
	2002..	X	
	1997..	X	
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)	X	27 031
	2002..	X	23 735
	1997..	X	17 928
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	15 863
	2002..	X	94 519
	1997..	S	63 486
00190056	Windows and window units, including wood, metal, and vinyl thousands	S	
	2002..	X	25 959
	1997..	X	30 150
32191100	Wood doors and door units	S	16 316
	2002..	991.4	16 647
	1997..	X	34 944
33232103	Metal doors and door units thousands	X	40 253
	2002..	X	
	1997..	X	
33711000	Kitchen cabinets, wood	X	55 987
	2002..	X	46 053
	1997..	X	52 690
32121901	Reconstituted wood products (including particleboard, oriented strandboard, medium density fiberboard, and hardboard)	X	59 912
	2002..	X	
	1997..	X	
33232207	Metal siding, including aluminum, steel	X	19 197
	2002..	X	19 585
	1997..	X	
33231201	Fabricated structural iron, steel, and aluminum (including truss plates)	X	
	2002..	X	17 158
	1997..	X	17 671
001900B3	Current-carrying wiring devices (including switches, connectors, lampholders, etc.)	X	22 070
	2002..	X	17 818
	1997..	X	
31411001	Floor coverings, textile	X	
	2002..	X	190 652
	1997..	X	170 546
00970099	All other materials and components, parts, containers, and supplies	X	674 362
	2002..	X	
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002..	X	
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
321992	Prefabricated wood building manufacturing—Con. 1997..	X	624 666
321999	All other miscellaneous wood product manufacturing		
00900001	Total materials .....2002..	X	1 838 186
11331015	Hardwood logs and bolts mil bd ft Intl 1/4 in. scale. ....2002..	X	1 582 692
32100023	Hardwood rough lumber mil bd ft. ....2002..	X	150 015
32100029	Softwood rough lumber mil bd ft. ....2002..	X	72 653
32100027	Hardwood dressed lumber mil bd ft. ....2002..	X	231 971
	1997..	S	85 519
			146 223
			102 115
			23 743
			21 398
32100033	Softwood dressed lumber mil bd ft. ....2002..	S	72 308
32191203	Hardwood cut stock and dimension (excluding furniture frames) .....2002..	X	32 424
32100007	Chips, slabs, edgings, shavings, sawdust, and other wood waste .....2002..	X	30 131
	1997..	X	48 377
32121101	Hardwood plywood mil sq ft sm. ....2002..	P157.0	33 108
32121201	Softwood plywood mil sq ft sm. ....2002..	S	52 749
	1997..	S	27 547
			14 816
			22 259
32121901	Reconstituted wood products (including particleboard, oriented strandboard, medium density fiberboard, and hardboard) .....2002..	X	35 377
32551003	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied products 1,000 gallons. ....2002..	S	21 266
33200005	Fabricated metal products, including forgings .....2002..	q1 270.6	41 094
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	15 982
32721103	Glass (float, sheet and plate) .....2002..	X	35 776
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	23 068
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	25 624
	1997..	X	40 060
		X	1 301
		X	N
		X	341 143
		X	194 065
		X	585 245
		X	822 336
322110	Pulp mills		
00900001	Total materials .....2002..	X	1 598 946
11331009	Southern pine pulpwood bolts and logs 1,000 standard cords. ....2002..	P4 701.6	1 413 167
11331024	Pulpwood bolts and logs, other softwood (including Hemlock, Douglas fir, and Jack pine) 1,000 standard cords. ....2002..	D	266 111
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues 1,000 standard cords. ....2002..	N	241 385
11331027	Hardwood pulpwood bolts and logs .....2002..	P5 028.6	N
	1997..	3 026.2	343 903
		X	257 514
		X	86 056
		X	N
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues 1,000 standard cords. ....2002..	q1 488.7	117 971
32518103	Chlorine (100 percent Cl basis) 1,000 s tons. ....2002..	1 199.7	94 581
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons. ....2002..	q22.0	4 113
32518823	Sodium chlorate (100 percent NaClO ₃) 1,000 s tons. ....2002..	63.9	13 576
32510007	Other sodium compounds .....2002..	q447.9	86 186
	1997..	430.3	79 515
		P267.1	93 457
		169.8	54 820
		X	11 207
		X	11 765
32518813	Aluminum sulfate (17 percent Al ₂ O ₃) 1,000 s tons. ....2002..	S	1 506
32741003	Lime 1,000 s tons. ....2002..	q10.8	1 170
32500010	All other chemicals (including rosin sizing, kaolin and ball clay, starch, synthetic resins, titanium dioxide, calcium carbonate, and organic chemicals) .....2002..	P180.5	14 316
32210027	Woodpulp (air dry basis) 1,000 s tons. ....2002..	132.5	8 815
00190005	Recovered paper, all types .....2002..	X	103 086
	1997..	X	N
		X	N
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.) .....2002..	X	19 806
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	5 398
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	D
	1997..	X	329 230
		X	619 296
		X	6 191
		X	24 614

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322121	Paper (except newsprint) mills		
00900001	Total materials	2002.. X 1997.. X	15 074 671 17 623 400
11331005	Spruce and true fir pulpwood bolts and logs 1,000 standard cords	2002.. 1 051.8 1997.. 1 203.9	86 850 130 244
11331007	Hemlock pulpwood bolts and logs 1,000 standard cords	2002.. S 1997.. 683.1	42 695 54 854
11331009	Southern pine pulpwood bolts and logs 1,000 standard cords	2002.. S 1997.. 10 905.4	596 839 572 060
11331023	Other softwood pulpwood bolts and logs, including Douglas fir and Jack pine 1,000 standard cords	2002.. S 1997.. 2 368.6	259 198 122 711
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues 1,000 standard cords	2002.. 97 015.8 1997.. 10 211.5	522 022 681 989
11331011	Southern mixed hardwood pulpwood bolts and logs 1,000 standard cords	2002.. P5 633.9 1997.. P7 743.4	364 533 431 852
11331025	Other hardwood pulpwood bolts and logs 1,000 standard cords	2002.. P6 619.1 1997.. 8 933.0	420 593 489 739
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues 1,000 standard cords	2002.. P5 622.1 1997.. 8 416.1	391 370 562 000
32518103	Chlorine (100 percent Cl basis) 1,000 s tons	2002.. 80.2 1997.. 365.0	22 109 82 021
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons	2002.. P806.3 1997.. 1 257.8	134 550 247 702
32518823	Sodium chlorate (100 percent NaClO ₃) 1,000 s tons	2002.. P653.5 1997.. 682.9	214 108 241 576
32510007	Other sodium compounds 1,000 s tons	2002.. X 1997.. X	33 447 45 345
32518813	Aluminum sulfate (17 percent Al ₂ O ₃) 1,000 s tons	2002.. 113.9 1997.. 149.6	14 618 19 616
32599811	Rosin sizing mil lb (dry basis)	2002.. P61.8 1997.. 188.5	39 689 93 225
32741003	Lime 1,000 s tons	2002.. P506.2 1997.. 734.3	30 316 40 967
21232400	Kaolin and ball clay 1,000 s tons	2002.. P1 637.1 1997.. 2 036.2	282 117 322 274
31122113	Starch mil lb	2002.. P1 872.6 1997.. 2 192.1	316 669 419 869
32521131	Synthetic resins mil lb	2002.. P313.1 1997.. 425.1	170 654 279 707
32513103	Titanium dioxide, composite and pure (100 percent TiO ₂) mil lb	2002.. P236.6 1997.. 382.7	197 892 326 403
32518829	Calcium carbonate, precipitated (100 percent CaCO ₂) 1,000 s tons	2002.. P2 294.1 1997.. 1 832.8	276 399 261 717
32500009	All other chemicals (including organic)	2002.. X 1997.. X	1 342 293 1 473 728
32210029	Woodpulp produced at affiliated or associated mills at other locations 1,000 s tons (dry basis)	2002.. 3 385.6 1997.. 1 980.7	1 138 262 889 868
32210031	Woodpulp, purchased (market) 1,000 s tons (dry basis)	2002.. P4 031.7 1997.. 7 825.0	1 616 011 3 259 888
00190006	Mixed wastepaper, excluding plant's own broke paper 1,000 s tons	2002.. P2 095.2 1997.. 1 819.1	185 568 367 079
00190007	Mechanical news wastepaper, excluding plant's own broke paper 1,000 s tons	2002.. D 1997.. 446.6	D 22 997
00190072	Other mechanical wastepaper, excluding plant's own broke paper 1,000 s tons	2002.. 570.0 1997.. 313.3	76 726 38 654
00190073	Corrugated wastepaper (including kraft), excluding plant's own broke paper 1,000 s tons	2002.. 1 253.6 1997.. 1 597.1	118 418 235 975
00190009	High grade pulp substitutes wastepaper, excluding plant's own broke paper 1,000 s tons	2002.. 522.6 1997.. 439.7	107 667 133 513
00190010	High grade deinking wastepaper, excluding plant's own broke paper 1,000 s tons	2002.. 1 296.1 1997.. P1 448.3	220 908 282 329
31122305	Cotton linters mil lb	2002.. P32.6 1997.. P70.0	26 154 38 509
32210033	Linter pulp 1,000 s tons	2002.. 9.1 1997.. S	12 563 27 455
00190015	Other fibrous materials, including rags, straw, and bagasse 1,000 s tons	2002.. D 1997.. 284.2	D 106 516
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 1,000 s tons	2002.. X 1997.. X	D 52 209
31323001	Nonwoven fabrics mil sq yd	2002.. D 1997.. S	D 172 684
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.) 1,000 s tons	2002.. X 1997.. X	545 398 413 098
32552003	Glues and adhesives mil lb	2002.. S 1997.. 100.9	108 327 76 275
32221001	Paperboard containers, boxes, and corrugated paperboard 1,000 s tons	2002.. X 1997.. X	571 530 481 771
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	2 638 038 3 332 075
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	758 050 792 906

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322122	Newsprint mills		
00900001	Total materials	X	1 081 387
	.....2002..	X	1 908 422
	.....1997..		
11331005	Spruce and true fir pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..		
	.....1997..	819.1	73 149
11331007	Hemlock pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..		
	.....1997..	D	D
11331009	Southern pine pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..	1 201.3	77 487
	.....1997..	3 884.2	255 406
11331023	Other softwood pulpwood bolts and logs, including Douglas fir and Jack pine	D	D
	.....1,000 standard cords		
	.....2002..		
	.....1997..	D	D
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	D	D
	.....1,000 standard cords		
	.....2002..	1 368.3	108 359
	.....1997..	1 855.7	148 846
11331011	Southern mixed hardwood pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..		
	.....1997..	336.6	20 127
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	D	D
	.....1,000 standard cords		
	.....2002..		
	.....1997..	589.0	38 462
32518103	Chlorine (100 percent Cl basis)	D	D
	.....1,000 s tons		
	.....2002..		
	.....1997..	56.1	13 330
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	D	D
	.....1,000 s tons		
	.....2002..	58.2	11 331
	.....1997..	165.8	28 261
32518823	Sodium chlorate (100 percent NaClO ₃)	D	D
	.....1,000 s tons		
	.....2002..		
	.....1997..	34.3	12 485
32510007	Other sodium compounds	X	20 125
	.....2002..	X	54 195
	.....1997..		
32518813	Aluminum sulfate (17 percent Al ₂ O ₃)	X	4 077
	.....1,000 s tons		
	.....2002..	35.0	14 944
	.....1997..	83.3	
32741003	Lime	D	D
	.....1,000 s tons		
	.....2002..		
	.....1997..	79.3	5 455
21232400	Kaolin and ball clay	D	D
	.....1,000 s tons		
	.....2002..	124.6	25 185
	.....1997..	249.0	51 317
31122113	Starch	D	D
	.....mil lb		
	.....2002..	27.7	7 315
	.....1997..	44.6	11 256
32521131	Synthetic resins	D	D
	.....mil lb		
	.....2002..		
	.....1997..	D	D
32518829	Calcium carbonate, precipitated (100 percent CaCO ₂)	D	D
	.....1,000 s tons		
	.....2002..	114.9	14 126
	.....1997..	13.8	2 579
32500009	All other chemicals (including organic)	X	110 910
	.....2002..	X	245 177
	.....1997..		
32210029	Woodpulp produced at affiliated or associated mills at other locations	D	D
	.....1,000 s tons (dry basis)		
	.....2002..		
	.....1997..	D	D
32210031	Woodpulp, purchased (market)	D	D
	.....1,000 s tons (dry basis)		
	.....2002..	171.2	66 218
	.....1997..	346.1	169 226
00190006	Mixed wastepaper, excluding plant's own broke paper	D	D
	.....1,000 s tons		
	.....2002..		
	.....1997..	273.1	26 303
00190007	Mechanical news wastepaper, excluding plant's own broke paper	D	D
	.....1,000 s tons		
	.....2002..	2 574.9	260 989
	.....1997..	3 123.7	229 807
00190072	Other mechanical wastepaper, excluding plant's own broke paper	D	D
	.....1,000 s tons		
	.....2002..	493.3	47 046
	.....1997..	276.4	19 707
00190010	High grade deinking wastepaper, excluding plant's own broke paper	D	D
	.....1,000 s tons		
	.....2002..		
	.....1997..	128.4	13 009
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.)	X	21 746
	.....2002..	X	36 124
	.....1997..		
32552003	Glues and adhesives	S	259
	.....mil lb		
	.....2002..		
	.....1997..	D	D
00970099	All other materials and components, parts, containers, and supplies	X	267 691
	.....2002..	X	340 039
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	S	
	.....2002..	X	36 429
	.....1997..		
322130	Paperboard mills		
00900001	Total materials	X	7 834 128
	.....2002..	X	8 795 656
	.....1997..		
11331009	Southern pine pulpwood bolts and logs	X	830 629
	.....1,000 standard cords		
	.....2002..	13 492.6	1 409 503
	.....1997..	16 584.7	
11331023	Other softwood pulpwood bolts and logs, including Douglas fir and Jack pine	D	D
	.....1,000 standard cords		
	.....2002..	1 596.9	108 878
	.....1997..	D	D
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	D	D
	.....1,000 standard cords		
	.....2002..	12 776.3	907 734
	.....1997..	P13 302.1	1 031 638
11331011	Southern mixed hardwood pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..	4 926.2	323 257
	.....1997..	4 745.9	363 157
11331025	Other hardwood pulpwood bolts and logs	D	D
	.....1,000 standard cords		
	.....2002..	884.9	51 383
	.....1997..	P1 455.7	97 329
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	D	D
	.....1,000 standard cords		
	.....2002..	4 011.6	326 614
	.....1997..	7 364.0	401 339
32518103	Chlorine (100 percent Cl basis)	D	D
	.....1,000 s tons		
	.....2002..	65.6	9 574
	.....1997..	130.9	29 133
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	D	D
	.....1,000 s tons		
	.....2002..	607.9	100 793
	.....1997..	894.3	142 395
32518823	Sodium chlorate (100 percent NaClO ₃)	D	D
	.....1,000 s tons		
	.....2002..	243.9	83 786
	.....1997..	254.8	89 849

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322130	Paperboard mills—Con.		
32510007	Other sodium compounds .....2002..	X	27 676
	.....1997..	X	39 502
32518813	Aluminum sulfate (17 percent Al ₂ O ₃) 1,000 s tons ..2002..	214.1	23 481
	.....1997..	292.1	29 152
32599811	Rosin sizing mil lb (dry basis) ..2002..	P145.2	68 946
	.....1997..	P143.7	75 234
32741003	Lime 1,000 s tons ..2002..	308.9	22 154
	.....1997..	510.6	33 374
21232400	Kaolin and ball clay 1,000 s tons ..2002..	9564.0	88 673
	.....1997..	526.1	70 909
31122113	Starch mil lb ..2002..	654.9	114 371
	.....1997..	879.7	165 875
32521131	Synthetic resins mil lb ..2002..	304.3	125 206
	.....1997..	298.0	145 941
32513103	Titanium dioxide, composite and pure (100 percent TiO ₂) mil lb ..2002..	91.0	76 449
	.....1997..	85.2	89 338
32518829	Calcium carbonate, precipitated (100 percent CaCO ₂) 1,000 s tons ..2002..	327.8	46 693
	.....1997..	9201.7	27 572
32500009	All other chemicals (including organic).....2002..	X	613 979
	.....1997..	X	541 253
32210029	Woodpulp produced at affiliated or associated mills at other locations 1,000 s tons (dry basis) ..2002..	51.5	18 113
	.....1997..	156.9	72 515
32210031	Woodpulp, purchased (market) 1,000 s tons (dry basis) ..2002..	184.1	82 661
	.....1997..	222.5	101 614
00190006	Mixed wastepaper, excluding plant's own broke paper 1,000 s tons ..2002..	S	154 297
	.....1997..	P1 951.9	71 920
00190007	Mechanical news wastepaper, excluding plant's own broke paper 1,000 s tons ..2002..	P757.9	60 477
	.....1997..	1 269.6	50 023
00190072	Other mechanical wastepaper, excluding plant's own broke paper 1,000 s tons ..2002..	443.6	65 902
	.....1997..	821.4	51 526
00190073	Corrugated wastepaper (including kraft), excluding plant's own broke paper 1,000 s tons ..2002..	13 404.3	1 256 139
	.....1997..	16 088.0	1 725 959
00190009	High grade pulp substitutes wastepaper, excluding plant's own broke paper 1,000 s tons ..2002..	211.7	36 443
	.....1997..	662.9	110 750
00190010	High grade deinking wastepaper, excluding plant's own broke paper 1,000 s tons ..2002..	207.1	58 900
	.....1997..	122.1	17 710
00190015	Other fibrous materials, including rags, straw, and bagasse 1,000 s tons ..2002..	D	D
	.....1997..	D	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	D
	.....1997..	X	D
31323001	Nonwoven fabrics mil sq yd ..2002..	S	2 144
	.....1997..	D	D
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.) .....2002..	X	30 055
	.....1997..	X	40 769
32552003	Glues and adhesives mil lb ..2002..	D	D
	.....1997..	S	977
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	127 173
	.....1997..	X	91 427
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 204 991
	.....1997..	X	1 262 157
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	763 803
	.....1997..	X	307 734
322211	Corrugated and solid fiber box manufacturing		
00900001	Total materials .....2002..	X	17 068 741
	.....1997..	X	14 787 277
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons ..2002..	S	13 351 764
	.....1997..	P32 394.3	11 407 691
32610021	Fabricated plastics products (including closures, ends, film, strapping, etc.) .....2002..	X	117 036
	.....1997..	X	125 333
33120016	Steel sheet and strip (including tinplate) .....2002..	X	12 427
	.....1997..	X	N
33131503	Aluminum sheet, plate, and foil .....2002..	X	D
	.....1997..	X	D
33211500	Metal closures and crowns for containers .....2002..	X	D
	.....1997..	X	1 438
32410009	Petroleum wax mil lb ..2002..	S	76 296
	.....1997..	346.2	120 360
32552002	Glues and adhesives .....2002..	X	276 984
	.....1997..	X	N
32591003	Printing inks mil lb ..2002..	S	140 466
	.....1997..	S	153 719
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 240 975
	.....1997..	X	1 063 976
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 844 160
	.....1997..	X	1 913 450
322212	Folding paperboard box manufacturing		
00900001	Total materials .....2002..	X	4 109 092
	.....1997..	X	4 382 436
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons ..2002..	S	2 824 568
	.....1997..	94 978.8	3 071 644
32610021	Fabricated plastics products (including closures, ends, film, strapping, etc.) .....2002..	X	43 490
	.....1997..	X	50 322

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322212	Folding paperboard box manufacturing—Con.		
33120016	Steel sheet and strip (including tinplate) 2002..	X	D
	1997..	X	N
33131503	Aluminum sheet, plate, and foil 2002..	X	20 912
	1997..	X	20 303
33211500	Metal closures and crowns for containers 2002..	X	D
	1997..	X	D
32410009	Petroleum wax mil lb. 2002..	S	4 983
	1997..	12.3	6 440
32552002	Glues and adhesives. 2002..	X	22 028
	1997..	X	N
32591003	Printing inks mil lb. 2002..	S	193 686
	1997..	P67.5	210 940
00970099	All other materials and components, parts, containers, and supplies 2002..	X	435 240
	1997..	X	539 707
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	559 246
	1997..	X	482 868
322213	Setup paperboard box manufacturing		
00900001	Total materials 2002..	X	255 224
	1997..	X	193 024
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons. 2002..	Q233.0	138 553
	1997..	S	109 286
32610021	Fabricated plastics products (including closures, ends, film, strapping, etc.) 2002..	X	3 770
	1997..	X	5 307
33120016	Steel sheet and strip (including tinplate) 2002..	X	D
	1997..	X	N
33131503	Aluminum sheet, plate, and foil 2002..	X	D
	1997..	X	713
33211500	Metal closures and crowns for containers 2002..	X	D
	1997..	X	187
32552002	Glues and adhesives. 2002..	X	D
	1997..	X	N
32591003	Printing inks mil lb. 2002..	S	3 728
	1997..	S	1 166
00970099	All other materials and components, parts, containers, and supplies 2002..	X	24 554
	1997..	X	34 695
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	75 263
	1997..	X	41 670
322214	Fiber can, tube, drum, and similar products manufacturing		
00900001	Total materials 2002..	X	1 044 708
	1997..	X	1 224 660
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons. 2002..	Q1 248.4	592 065
	1997..	P1 590.7	683 671
32610021	Fabricated plastics products (including closures, ends, film, strapping, etc.) 2002..	X	29 666
	1997..	X	21 771
33120016	Steel sheet and strip (including tinplate) 2002..	X	38 323
	1997..	X	N
33131503	Aluminum sheet, plate, and foil 2002..	X	8 241
	1997..	X	6 508
33211500	Metal closures and crowns for containers 2002..	X	D
	1997..	X	81 783
32410009	Petroleum wax mil lb. 2002..	D	D
	1997..	S	280
32552002	Glues and adhesives. 2002..	X	39 168
	1997..	X	N
32591003	Printing inks mil lb. 2002..	D	D
	1997..	S	1 119
00970099	All other materials and components, parts, containers, and supplies 2002..	X	119 500
	1997..	X	327 834
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	95 104
	1997..	X	101 694
322215	Nonfolding sanitary food container manufacturing		
00900001	Total materials 2002..	X	1 575 839
	1997..	X	1 385 856
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons. 2002..	Q1 611.7	1 030 588
	1997..	P1 330.6	1 031 160
32610021	Fabricated plastics products (including closures, ends, film, strapping, etc.) 2002..	X	78 112
	1997..	X	42 349
33131503	Aluminum sheet, plate, and foil 2002..	X	D
	1997..	X	D
32410009	Petroleum wax mil lb. 2002..	D	D
	1997..	90.5	29 168
32552002	Glues and adhesives. 2002..	X	D
	1997..	N	N
32591003	Printing inks mil lb. 2002..	S	33 481
	1997..	P11.3	37 716
00970099	All other materials and components, parts, containers, and supplies 2002..	X	241 139
	1997..	X	179 279
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	172 640
	1997..	X	62 689

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322221	Coated and laminated packaging paper and plastics film manufacturing		
00900001	Total materials	X	712 034
	.....2002..	X	900 599
	.....1997..	X	408 667
32212007	Paper 1,000 s tons	^a 476.4	511 054
	.....2002..	533.6	
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	46 226
	.....2002..	X	76 944
	.....1997..	X	10 123
32611201	Polyethylene unsupported plastic packaging film in roll form	X	N
	.....2002..	X	
	.....1997..	X	
32611203	Polypropylene unsupported plastics packaging film in roll form	X	12 668
	.....2002..	X	N
	.....1997..	X	
00190062	Polyester unsupported plastics packaging film (coated and uncoated) in roll form	X	D
	.....2002..	X	N
	.....1997..	X	N
32612205	Nylon unsupported plastics packaging film in roll form	X	D
	.....2002..	X	N
	.....1997..	X	
00190063	Other unsupported plastics packaging film in roll form (including cellophane)	X	D
	.....2002..	X	N
	.....1997..	X	N
33131509	Aluminum foil, plain mil lb	^P 12.7	20 940
	.....2002..	23.7	42 849
	.....1997..	S	13 828
32552003	Glues and adhesives mil lb	N	10 785
	.....2002..	N	
	.....1997..	N	
32591002	Printing inks	X	22 578
	.....2002..	X	N
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	13 040
	.....2002..	X	10 636
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	103 215
	.....2002..	X	197 672
	.....1997..	X	51 757
00971000	Materials, ingredients, containers, and supplies, nsk	X	50 659
	.....2002..	X	
	.....1997..	X	
322222	Coated and laminated paper manufacturing		
00900001	Total materials	X	5 483 598
	.....2002..	X	5 508 515
	.....1997..	X	1 938 532
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons	^a 358.1	N
	.....2002..	N	
	.....1997..	N	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	248 661
	.....2002..	X	310 534
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	344 837
	.....2002..	X	379 854
	.....1997..	X	235 166
31332007	Coated or laminated fabrics, including vinyl coated mil sq yd	S	178 330
	.....2002..	N	
	.....1997..	N	
32552002	Glues and adhesives	X	550 235
	.....2002..	X	N
	.....1997..	X	N
32591002	Printing inks	X	58 444
	.....2002..	X	N
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	162 669
	.....2002..	X	145 991
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	1 347 321
	.....2002..	X	N
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	X	597 733
	.....2002..	X	611 656
	.....1997..	X	
322223	Plastics, foil, and coated paper bag manufacturing		
00900001	Total materials	X	287 887
	.....2002..	X	230 433
	.....1997..	X	117 580
32212007	Paper 1,000 s tons	^P 108.6	129 621
	.....2002..	^P 124.5	
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	S	18 695
	.....2002..	^P 12.8	7 392
	.....1997..	X	16 466
32611201	Polyethylene unsupported plastic packaging film in roll form	X	N
	.....2002..	X	
	.....1997..	X	
32611203	Polypropylene unsupported plastics packaging film in roll form	X	4 191
	.....2002..	X	N
	.....1997..	X	
00190062	Polyester unsupported plastics packaging film (coated and uncoated) in roll form	X	8 080
	.....2002..	X	N
	.....1997..	X	N
33131509	Aluminum foil, plain mil lb	^P 9.5	13 230
	.....2002..	3.1	4 333
	.....1997..	^P 15.5	9 711
32552003	Glues and adhesives mil lb	N	11 919
	.....2002..	X	10 303
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	5 945
	.....2002..	X	6 408
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	61 327
	.....2002..	X	57 212
	.....1997..	X	22 359
00971000	Materials, ingredients, containers, and supplies, nsk	X	13 548
2002..	X	
1997..	X	

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322224	Uncoated paper and multiwall bag manufacturing		
0090001	Total materials	X	1 188 415
	.....2002..	X	1 579 396
	.....1997..	X	836 110
32212007	Paper	P1 315.5	1 030 582
	.....1,000 s tons	P1 700.2	
	.....2002..		
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	25 452
	.....2002..	X	50 380
	.....1997..	X	40 913
32611201	Polyethylene unsupported plastic packaging film in roll form	X	N
	.....2002..	X	
	.....1997..	X	
32611203	Polypropylene unsupported plastics packaging film in roll form	X	16 634
	.....2002..	X	N
	.....1997..	X	
00190062	Polyester unsupported plastics packaging film (coated and uncoated) in roll form	X	D
	.....2002..	X	N
	.....1997..	X	D
32612205	Nylon unsupported plastics packaging film in roll form	X	D
	.....2002..	X	N
	.....1997..	X	
00190063	Other unsupported plastics packaging film in roll form (including cellophane)	X	1 362
	.....2002..	X	N
	.....1997..	X	D
33131509	Aluminum foil, plain	D	D
	.....mil lb	D	D
	.....2002..	S	41 776
	.....1997..	N	49 481
32552003	Glues and adhesives		
	.....mil lb		
	.....2002..		
	.....1997..		
32591002	Printing inks	X	57 993
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	23 244
	.....2002..	X	29 837
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	110 549
	.....2002..	X	232 953
	.....1997..	X	29 950
00971000	Materials, ingredients, containers, and supplies, nsk	X	181 369
	.....2002..	X	
	.....1997..	X	
322225	Laminated aluminum foil manufacturing for flexible packaging uses		
0090001	Total materials	X	858 552
	.....2002..	X	958 272
	.....1997..	X	173 767
32212006	Paper	X	N
	.....2002..	X	
	.....1997..	X	
33131507	Aluminum and aluminum-base alloy plain foil	P80.5	107 564
	.....mil lb	P82.0	120 025
	.....2002..	P56.2	93 289
32222503	Converted aluminum foil (quantity represents metal content)	P82.9	135 996
	.....mil lb	D	D
	.....2002..	D	D
	.....1997..	D	D
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	X	58 016
	.....2002..	X	N
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	125 530
	.....2002..	X	250 395
	.....1997..	X	D
32500069	Other chemicals and allied products	D	D
	.....mil lb	D	D
	.....2002..	P33.7	39 454
32552005	Glues and adhesives, including synthetic resin adhesives	P30.3	39 737
	.....mil lb	P21.4	41 666
32591003	Printing inks	27.6	57 721
	.....mil lb		
	.....2002..		
	.....1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	24 920
	.....2002..	X	N
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	106 668
	.....2002..	X	265 559
	.....1997..	X	59 249
00971000	Materials, ingredients, containers, and supplies, nsk	X	21 550
	.....2002..	X	
	.....1997..	X	
322226	Surface-coated paperboard manufacturing		
0090001	Total materials	X	554 640
	.....2002..	X	766 961
	.....1997..	X	446 257
32210005	Paper and paperboard (excluding boxes and containers)	836.0	598 591
	.....1,000 s tons	1 023.7	
	.....2002..		
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	28 466
	.....2002..	X	N
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	18 894
	.....2002..	X	94 274
	.....1997..	X	9 334
31332007	Coated or laminated fabrics, including vinyl coated	S	N
	.....mil sq yd	N	
	.....2002..		
	.....1997..		
32552002	Glues and adhesives	X	9 493
	.....2002..	X	N
	.....1997..	X	
32591002	Printing inks	X	3 407
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	2 610
	.....2002..	X	7 678
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	21 161
	.....2002..	X	57 441
	.....1997..	X	15 018
00971000	Materials, ingredients, containers, and supplies, nsk	X	8 977
2002..	X	
1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322231	Die-cut paper and paperboard office supplies manufacturing		
00900001	Total materials	X	1 607 837
	2002..	X	1 014 537
	1997..	X	172 859
00190005	Recovered paper, all types	X	N
	2002..	X	691 491
	1997..	X	638 487
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons..	S	
	2002..		
	1997..	913.4	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	26 929
	2002..	X	16 501
	1997..	X	6 961
31332006	Coated and laminated fabrics (including vinyl coated)	X	N
	2002..	X	
	1997..	X	
32552003	Glues and adhesives mil lb..	S	17 596
	2002..	X	5 943
	1997..	X	7 292
32591002	Printing inks	X	N
	2002..	X	82 746
	1997..	X	50 617
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	92 158
	2002..	X	82 161
	1997..	X	509 805
00971000	Materials, ingredients, containers, and supplies, nsk	X	220 828
	2002..	X	
	1997..	X	
322232	Envelope manufacturing		
00900001	Total materials	X	1 527 540
	2002..	X	1 663 287
	1997..	X	92 686
00190005	Recovered paper, all types	X	N
	2002..	X	885 731
	1997..	X	1 012 504
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons..	P1 335.7	
	2002..	P1 312.3	
	1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	70 078
	2002..	X	95 119
	1997..	X	4 549
31332006	Coated and laminated fabrics (including vinyl coated)	X	N
	2002..	X	
	1997..	X	
32552003	Glues and adhesives mil lb..	S	43 039
	2002..	N	39 940
	1997..	X	23 587
32591002	Printing inks	X	N
	2002..	X	91 825
	1997..	X	109 551
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	64 516
	2002..	X	138 500
	1997..	X	251 529
00971000	Materials, ingredients, containers, and supplies, nsk	X	267 673
	2002..	X	
	1997..	X	
322233	Stationery, tablet, and related product manufacturing		
00900001	Total materials	X	817 125
	2002..	X	946 802
	1997..	X	5 173
00190005	Recovered paper, all types	X	D
	2002..	X	557 948
	1997..	P924.6	669 517
32210005	Paper and paperboard (excluding boxes and containers) 1,000 s tons..	840.0	
	2002..		
	1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	7 547
	2002..	X	7 809
	1997..	S	6 591
32552003	Glues and adhesives mil lb..	N	7 987
	2002..	X	3 591
	1997..	X	N
32591002	Printing inks	X	
	2002..	X	43 451
	1997..	X	80 506
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	75 785
	2002..	X	D
	1997..	X	117 039
00971000	Materials, ingredients, containers, and supplies, nsk	X	66 037
	2002..	X	
	1997..	X	
322291	Sanitary paper product manufacturing		
00900001	Total materials	X	3 193 003
	2002..	X	3 161 776
	1997..	S	503 101
32210027	Woodpulp (air dry basis) 1,000 s tons..		
	2002..	303.6	195 016
	1997..	953.0	702 265
32212007	Paper 1,000 s tons..	P978.8	778 926
	2002..		
	1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	205 528
	2002..	X	94 409
	1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	69 681
	2002..	X	275 462
	1997..	X	
31323001	Nonwoven fabrics mil sq yd..	P7 675.4	271 200
	2002..	P5 731.8	471 836
	1997..		
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.)	X	227 113
	2002..	X	119 935
	1997..	S	77 722
32552003	Glues and adhesives mil lb..	180.2	115 351
	2002..	X	147 266
	1997..	X	166 655
32221001	Paperboard containers, boxes, and corrugated paperboard	X	
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	822 682
	2002..	X	580 862
	1997..	X	166 445
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
322291	Sanitary paper product manufacturing—Con.		
	1997..	X	363 324
322299	All other converted paper product manufacturing		
00900001	Total materials	2002.. X	1 869 469
	1997..	X	1 560 875
00190005	Recovered paper, all types	2002.. X	141 446
	1997..	X	39 522
32210005	Paper and paperboard (excluding boxes and containers)	1,000 s tons .2002.. S	804 219
	1997..	X	589 513
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	24 933
	1997..	X	17 985
31332006	Coated and laminated fabrics (including vinyl coated)	2002.. X	2 566
	1997..	X	N
32552003	Glues and adhesives	mil lb .2002.. S	15 446
	1997..	X	17 269
32591002	Printing inks	2002.. X	8 518
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	45 864
	1997..	X	39 844
00970099	All other materials and components, parts, containers, and supplies	2002.. X	433 651
	1997..	X	411 685
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	392 826
	1997..	X	445 057
323110	Commercial lithographic printing		
00900001	Total materials	2002.. X	16 156 869
	1997..	X	16 661 178
32212203	Newsprint	2002.. X	634 332
	1997..	X	1 218 520
32212009	Uncoated paper, sheets	2002.. X	859 026
	1997..	X	1 142 820
32212011	Uncoated paper, rolls	2002.. X	1 766 653
	1997..	X	2 075 071
32200011	Coated paper, sheets	2002.. X	1 408 036
	1997..	X	1 867 288
32200013	Coated paper, rolls	2002.. X	2 212 172
	1997..	X	2 247 303
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	2002.. X	217 074
	1997..	X	173 999
32591002	Printing inks	2002.. X	1 028 469
	1997..	X	N
32599203	Light sensitive films and papers	2002.. X	116 601
	1997..	X	226 323
32599201	Unexposed photosensitive printing plates	2002.. X	145 451
	1997..	X	154 106
32312201	Printing plates, prepared for printing	2002.. X	200 994
	1997..	X	187 253
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	212 907
	1997..	X	151 982
32223200	Envelopes, purchased	2002.. X	162 338
	1997..	X	213 641
00970099	All other materials and components, parts, containers, and supplies	2002.. X	1 983 363
	1997..	X	2 215 902
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	5 209 453
	1997..	X	4 786 970
323111	Commercial gravure printing		
00900001	Total materials	2002.. X	1 444 864
	1997..	X	1 848 865
32212203	Newsprint	2002.. X	D
	1997..	X	D
32212009	Uncoated paper, sheets	2002.. X	6 532
	1997..	X	36 411
32212011	Uncoated paper, rolls	2002.. X	476 971
	1997..	X	649 889
32200011	Coated paper, sheets	2002.. X	8 309
	1997..	X	D
32200013	Coated paper, rolls	2002.. X	325 614
	1997..	X	228 168
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	2002.. X	43 485
	1997..	X	43 830
32591002	Printing inks	2002.. X	380 429
	1997..	X	N
32599203	Light sensitive films and papers	2002.. X	1 427
	1997..	X	2 163
32599201	Unexposed photosensitive printing plates	2002.. X	3 169
	1997..	X	1 982
32312201	Printing plates, prepared for printing	2002.. X	4 630
	1997..	X	3 020
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	13 079
	1997..	X	16 636
32223200	Envelopes, purchased	2002.. X	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	2002.. X	119 491
	1997..	X	621 869
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	11 399
	1997..	X	170 766

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
323112	Commercial flexographic printing		
00900001	Total materials .....2002..	X	2 242 198
	.....1997..	X	1 940 278
32212009	Uncoated paper, sheets .....2002..	X	4 368
	.....1997..	X	14 175
32212011	Uncoated paper, rolls .....2002..	X	183 713
	.....1997..	X	97 609
32200011	Coated paper, sheets .....2002..	X	31 502
	.....1997..	X	11 700
32200013	Coated paper, rolls .....2002..	X	136 989
	.....1997..	X	164 891
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.) .....2002..	X	714 332
	.....1997..	X	624 832
32591002	Printing inks .....2002..	X	116 471
	.....1997..	X	N
32599203	Light sensitive films and papers .....2002..	X	7 771
	.....1997..	X	6 398
32599201	Unexposed photosensitive printing plates .....2002..	X	9 747
	.....1997..	X	7 415
32312201	Printing plates, prepared for printing .....2002..	X	31 245
	.....1997..	X	31 634
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	61 220
	.....1997..	X	19 257
32223200	Envelopes, purchased .....2002..	X	457
	.....1997..	X	2 254
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	380 484
	.....1997..	X	508 199
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	563 899
	.....1997..	X	451 914
323113	Commercial screen printing		
00900001	Total materials .....2002..	X	2 305 213
	.....1997..	X	2 387 853
32212203	Newsprint .....2002..	X	883
	.....1997..	X	1 222
32212009	Uncoated paper, sheets .....2002..	X	12 668
	.....1997..	X	13 339
32212011	Uncoated paper, rolls .....2002..	X	5 309
	.....1997..	X	2 684
32200011	Coated paper, sheets .....2002..	X	24 207
	.....1997..	X	27 323
32200013	Coated paper, rolls .....2002..	X	10 993
	.....1997..	X	7 130
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.) .....2002..	X	157 806
	.....1997..	X	196 422
31500000	Garments, purchased to be printed and resold .....2002..	X	488 124
	.....1997..	X	632 285
32591002	Printing inks .....2002..	X	90 260
	.....1997..	X	N
32599203	Light sensitive films and papers .....2002..	X	5 324
	.....1997..	X	8 009
32599201	Unexposed photosensitive printing plates .....2002..	X	904
	.....1997..	X	655
32312201	Printing plates, prepared for printing .....2002..	X	4 391
	.....1997..	X	3 043
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	17 593
	.....1997..	X	13 893
32223200	Envelopes, purchased .....2002..	X	221
	.....1997..	X	1 977
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	521 076
	.....1997..	X	597 930
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	965 454
	.....1997..	X	881 941
323114	Quick printing		
00900001	Total materials .....2002..	X	974 511
	.....1997..	X	1 112 270
32212203	Newsprint .....2002..	X	793
	.....1997..	X	3 150
32212009	Uncoated paper, sheets .....2002..	X	51 132
	.....1997..	X	107 230
32212011	Uncoated paper, rolls .....2002..	X	2 634
	.....1997..	X	10 887
32200011	Coated paper, sheets .....2002..	X	13 021
	.....1997..	X	24 454
32200013	Coated paper, rolls .....2002..	X	792
	.....1997..	X	1 951
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.) .....2002..	X	2 837
	.....1997..	X	7 439
31500000	Garments, purchased to be printed and resold .....2002..	X	12
	.....1997..	X	N
32591002	Printing inks .....2002..	X	5 541
	.....1997..	X	N
32599203	Light sensitive films and papers .....2002..	X	967
	.....1997..	X	3 211
32599201	Unexposed photosensitive printing plates .....2002..	X	919
	.....1997..	X	2 734
32312201	Printing plates, prepared for printing .....2002..	X	2 249
	.....1997..	X	3 563
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	1 334
	.....1997..	X	3 484

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
323114	Quick printing—Con.		
32223200	Envelopes, purchased	X	32 404
	1997 ..	X	32 047
00970099	All other materials and components, parts, containers, and supplies	X	57 110
	1997 ..	X	74 073
00971000	Materials, ingredients, containers, and supplies, nsk	X	802 766
	1997 ..	X	838 047
323115	Digital printing		
00900001	Total materials	X	498 964
	1997 ..	X	112 858
32212009	Uncoated paper, sheets	X	39 643
	1997 ..	X	5 113
32212011	Uncoated paper, rolls	X	15 944
	1997 ..	X	D
32200011	Coated paper, sheets	X	17 739
	1997 ..	X	3 996
32200013	Coated paper, rolls	X	25 573
	1997 ..	X	635
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	X	15 607
	1997 ..	X	2 228
32591002	Printing inks	X	12 480
	1997 ..	X	N
32599203	Light sensitive films and papers	X	2 466
	1997 ..	X	944
32599201	Unexposed photosensitive printing plates	X	3 285
	1997 ..	X	D
32312201	Printing plates, prepared for printing	X	2 149
	1997 ..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard	X	4 954
	1997 ..	X	307
32223200	Envelopes, purchased	X	6 931
	1997 ..	X	344
00970099	All other materials and components, parts, containers, and supplies	X	97 468
	1997 ..	X	9 779
00971000	Materials, ingredients, containers, and supplies, nsk	X	254 725
	1997 ..	X	86 962
323116	Manifold business forms printing		
00900001	Total materials	X	2 374 886
	1997 ..	X	3 382 172
32200015	Coated paper	X	159 782
	1997 ..	X	273 953
32212019	Uncoated paper	X	827 206
	1997 ..	X	971 572
32212021	Carbonless paper	X	379 854
	1997 ..	X	527 997
32212023	Carbonizing tissue stock for conversion into one-time carbon paper	X	1 354
	1997 ..	X	8 801
33994400	One-time carbon paper	X	13 538
	1997 ..	X	26 169
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	X	40 008
	1997 ..	X	31 154
32591002	Printing inks	X	27 059
	1997 ..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	66 110
	1997 ..	X	72 683
00970099	All other materials and components, parts, containers, and supplies	X	419 282
	1997 ..	X	229 517
00971000	Materials, ingredients, containers, and supplies, nsk	X	440 693
	1997 ..	X	1 240 326
323117	Books printing		
00900001	Total materials	X	1 469 598
	1997 ..	X	1 845 764
32212203	Newsprint	X	53 664
	1997 ..	X	44 107
32212009	Uncoated paper, sheets	X	90 049
	1997 ..	X	183 667
32212011	Uncoated paper, rolls	X	310 803
	1997 ..	X	389 580
32200011	Coated paper, sheets	X	95 586
	1997 ..	X	143 527
32200013	Coated paper, rolls	X	171 812
	1997 ..	X	280 369
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	X	7 337
	1997 ..	X	20 285
31320001	Cloth and nonwoven fabrics for hardbound book covers	X	36 940
	1997 ..	X	46 058
32552002	Glues and adhesives	X	31 021
	1997 ..	X	N
32591002	Printing inks	X	55 407
	1997 ..	X	N
32599203	Light sensitive films and papers	X	16 844
	1997 ..	X	35 815
32599201	Unexposed photosensitive printing plates	X	47 217
	1997 ..	X	38 342
32312201	Printing plates, prepared for printing	X	25 075
	1997 ..	X	30 924

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
323117	Books printing—Con.		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	55 926
	1997 ..	X	62 002
32213001	Paperboard (including news, chip, pasted, tablet, check, binders' board), excluding for shipping	X	74 557
	1997 ..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	155 840
	2002 ..	X	301 970
00971000	Materials, ingredients, containers, and supplies, nsk	X	241 520
	1997 ..	X	269 118
323118	Blankbook, looseleaf binders, and devices manufacturing		
00900001	Total materials	X	528 210
	2002 ..	X	843 663
	1997 ..	X	11 960
32200015	Coated paper	X	S
	2002 ..	X	14 629
	1997 ..	X	30 306
32212011	Uncoated paper, rolls	X	7 196
	2002 ..	X	12 941
	1997 ..	X	
32213001	Paperboard (including news, chip, pasted, tablet, check, binders' board), excluding for shipping	X	33 060
	2002 ..	X	90 660
	1997 ..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	25 360
	2002 ..	X	39 611
	1997 ..	X	
31320001	Cloth and nonwoven fabrics for hardbound book covers	X	9 329
	2002 ..	X	N
	1997 ..	X	
32311000	Looseleaf components (including ring-type), metal and plastic	X	57 804
	2002 ..	X	90 289
	1997 ..	X	
32610001	Plastics film and sheet	X	97 968
	2002 ..	X	164 288
	1997 ..	X	
001900D4	All other plastics consumed, excluding looseleaf devices and components	X	9 296
	2002 ..	X	12 780
	1997 ..	X	
32591002	Printing inks	X	1 868
	2002 ..	X	N
	1997 ..	X	
00970099	All other materials and components, parts, containers, and supplies	X	75 004
	2002 ..	X	214 344
	1997 ..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	184 736
	2002 ..	X	157 714
	1997 ..	X	
323119	Other commercial printing		
00900001	Total materials	X	795 490
	2002 ..	X	1 124 360
	1997 ..	X	
32212203	Newsprint	X	2 024
	2002 ..	X	39 589
	1997 ..	X	
32212009	Uncoated paper, sheets	X	15 131
	2002 ..	X	44 814
	1997 ..	X	
32212011	Uncoated paper, rolls	X	25 817
	2002 ..	X	69 505
	1997 ..	X	
32200011	Coated paper, sheets	X	14 243
	2002 ..	X	16 753
	1997 ..	X	
32200013	Coated paper, rolls	X	24 124
	2002 ..	X	23 218
	1997 ..	X	
32222200	Pressure-sensitive base stock, self-adhesive (paper, film, foil, etc.)	X	32 905
	2002 ..	X	101 098
	1997 ..	X	
32591002	Printing inks	X	12 436
	2002 ..	X	N
	1997 ..	X	
32599203	Light sensitive films and papers	X	4 217
	2002 ..	X	4 103
	1997 ..	X	
32599201	Unexposed photosensitive printing plates	X	2 619
	2002 ..	X	2 711
	1997 ..	X	
32312201	Printing plates, prepared for printing	X	3 603
	2002 ..	X	8 232
	1997 ..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	4 730
	2002 ..	X	7 340
	1997 ..	X	
32223200	Envelopes, purchased	X	8 927
	2002 ..	X	11 760
	1997 ..	X	
00970099	All other materials and components, parts, containers, and supplies	X	150 687
	2002 ..	X	115 128
	1997 ..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	494 027
	2002 ..	X	680 109
	1997 ..	X	
323121	Tradebinding and related work		
00900001	Total materials	X	439 641
	2002 ..	X	366 392
	1997 ..	X	
32200015	Coated paper	X	28 882
	2002 ..	X	10 201
	1997 ..	X	
32212011	Uncoated paper, rolls	X	D
	2002 ..	X	6 011
	1997 ..	X	
32212009	Uncoated paper, sheets	X	10 139
	2002 ..	X	10 576
	1997 ..	X	
32213001	Paperboard (including news, chip, pasted, tablet, check, binders' board), excluding for shipping	X	16 193
	2002 ..	X	19 017
	1997 ..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	12 715
	2002 ..	X	29 514
	1997 ..	X	
31320001	Cloth and nonwoven fabrics for hardbound book covers	X	13 694
	2002 ..	X	N
	1997 ..	X	
32311000	Looseleaf components (including ring-type), metal and plastic	X	4 935
	2002 ..	X	3 791
	1997 ..	X	

See footnotes at end of table.

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[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
323121	Tradebinding and related work—Con.		
32610001	Plastics film and sheet .....2002..	X	15 406
	.....1997..	X	5 149
001900D4	All other plastics consumed, excluding looseleaf devices and components .....2002..	X	D
	.....1997..	X	2 045
32591002	Printing inks .....2002..	X	5 939
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	139 869
	.....1997..	X	158 831
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	181 445
	.....1997..	X	121 257
323122	Prepress services		
00900001	Total materials .....2002..	X	459 109
	.....1997..	X	705 433
33100005	Metal for printing plates .....2002..	X	10 937
	.....1997..	X	13 648
32599201	Unexposed photosensitive printing plates .....2002..	X	25 372
	.....1997..	X	39 087
32599211	Light sensitive films .....2002..	X	24 560
	.....1997..	X	93 901
32599213	Light sensitive papers (including photographic paper and diffusion transfer paper) .....2002..	X	3 578
	.....1997..	X	8 442
33331500	Color proofing materials .....2002..	X	37 886
	.....1997..	X	75 068
32212001	Paper, all types (including newsprint, book, bond, cover, and coated), excluding light sensitive .....2002..	X	41 273
	.....1997..	X	35 119
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	77 275
	.....1997..	X	133 471
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	238 228
	.....1997..	X	306 697
324110	Petroleum refineries		
00900001	Total materials .....2002..	X	155 604 002
	.....1997..	X	118 682 535
21111103	Domestic crude petroleum, including lease condensate mil bbl. .2002..	P2 547.0	62 577 250
	.....1997..	2 801.5	47 220 759
00999830	Foreign crude petroleum, including lease condensate mil bbl. .2002..	2 924.6	68 475 424
	.....1997..	2 495.9	48 172 988
00999827	Foreign unfinished oils (received from foreign countries for further processing) mil bbl. .2002..	95.1	2 297 967
	.....1997..	P127.1	2 373 376
21111205	Ethane (C ₂) (80 percent purity or more) mil bbl. .2002..	S	368 770
	.....1997..	D	D
21111207	Propane (C ₃) (80 percent purity or more) mil bbl. .2002..	S	390 814
	.....1997..	P18.0	269 928
21111203	Butane (C ₄) (80 percent purity or more) mil bbl. .2002..	82.7	1 925 738
	.....1997..	80.1	1 567 875
21111021	Gas mixtures (C ₂ , C ₃ , C ₄) mil bbl. .2002..	52.4	1 296 875
	.....1997..	48.3	952 009
21111023	Isopentane and natural gasoline mil bbl. .2002..	74.6	1 843 708
	.....1997..	65.1	1 381 100
21111209	Other natural gas liquids, including plant condensate mil bbl. .2002..	35.5	810 530
	.....1997..	90.3	1 427 123
32519214	Toluene and xylene (100 percent basis) mil bbl. .2002..	12.5	455 442
	.....1997..	N	N
32500017	Additives (including antioxidants, antiknock compounds, and inhibitors) mil bbl. .2002..	.8	159 563
	.....1997..	S	262 228
32500019	Other additives (including soaps and detergents) mil bbl. .2002..	.8	40 842
	.....1997..	S	200 005
31100013	Animal and vegetable oils mil lb. .2002..	2.7	709
	.....1997..	D	D
32518825	Chemical catalytic preparations .....2002..	X	396 776
	.....1997..	X	647 040
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons .2002..	S	129 324
	.....1997..	S	41 741
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons .2002..	S	189 912
	.....1997..	S	56 514
33240000	Metal containers .....2002..	X	D
	.....1997..	X	60 531
32610029	Plastics containers .....2002..	X	D
	.....1997..	X	N
32220015	Paper and paperboard containers .....2002..	X	D
	.....1997..	X	18 404
32410007	Cost of materials received from petroleum refineries and lube manufacturers mil bbl. .2002..	P328.4	9 333 987
	.....1997..	P226.8	4 981 370
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	5 186 653
	.....1997..	X	4 233 383
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	S
	.....1997..	X	4 779 890
324121	Asphalt paving mixture and block manufacturing		
00900001	Total materials .....2002..	X	4 162 197
	.....1997..	X	3 431 538
32799203	Roofing granules 1,000 s tons .2002..	D	D
	.....1997..	S	5 337
32721205	Glass fiber (textile type, bonded mat type, etc.) mil lb. .2002..	D	D
	.....1997..	.1	445

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
324121	Asphalt paving mixture and block manufacturing— Con.		
32411025	Asphalts, paving grade mil bbl . .2002..	S	1 751 476
	1997..	S	1 282 117
32411027	Asphalts, roofing grade mil bbl . .2002..	S	8 299
	1997..	S	9 949
32411029	Asphalts (excluding paving and roofing grades) mil bbl . .2002..	S	59 037
	1997..	S	44 326
21232003	Sand and gravel 1,000 s tons . .2002..	S	825 347
	1997..	S	702 613
00970099	All other materials and components, parts, containers, and supplies2002..	X	694 226
	1997..	X	423 838
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	823 089
	1997..	X	962 913
324122	Asphalt shingle and coating materials manufacturing		
00900001	Total materials2002..	X	3 237 561
	1997..	X	2 779 247
32212033	Roofing felts, unsaturated 1,000 s tons . .2002..	S	140 324
	1997..	S	152 890
32799203	Roofing granules 1,000 s tons . .2002..	⁹⁵ 216.9	426 871
	1997..	⁹⁵ 360.3	427 847
32721205	Glass fiber (textile type, bonded mat type, etc.) mil lb . .2002..	⁹⁷ 04.5	443 033
	1997..	⁹⁶ 14.0	368 335
32411025	Asphalts, paving grade mil bbl . .2002..	⁹² .1	63 531
	1997..	⁹⁴ .1	96 053
32411027	Asphalts, roofing grade mil bbl . .2002..	S	860 672
	1997..	S	718 578
32411029	Asphalts (excluding paving and roofing grades) mil bbl . .2002..	⁹¹ .1	40 426
	1997..	S	68 713
21232003	Sand and gravel 1,000 s tons . .2002..	S	57 027
	1997..	^{P2} 777.9	53 676
00970099	All other materials and components, parts, containers, and supplies2002..	X	792 275
	1997..	X	646 875
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	413 402
	1997..	X	246 280
324191	Petroleum lubricating oil and grease manufacturing		
00900001	Total materials2002..	X	3 628 193
	1997..	X	3 692 859
21111103	Domestic crude petroleum, including lease condensate mil bbl . .2002..	S	124 099
	1997..	S	143 352
00999830	Foreign crude petroleum, including lease condensate mil bbl . .2002..	D	D
	1997..	D	D
21111207	Propane (C ₃) (80 percent purity or more) mil bbl . .2002..	D	D
	1997..	D	D
32500017	Additives (including antioxidants, antiknock compounds, and inhibitors) mil bbl . .2002..	^{P1} .0	211 172
	1997..	S	43 890
32500019	Other additives (including soaps and detergents) mil bbl . .2002..	S	122 647
	1997..	S	437 372
31100013	Animal and vegetable oils mil lb . .2002..	D	D
	1997..	214.7	129 591
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons . .2002..	S	1 085
	1997..	⁹² 9.6	10 421
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons . .2002..	S	785
	1997..	S	4 832
33240000	Metal containers2002..	X	47 350
	1997..	X	76 462
32610029	Plastics containers2002..	X	113 904
	1997..	N	N
32220015	Paper and paperboard containers2002..	X	43 753
	1997..	X	58 150
32221400	Fiber cans (bodies with combinations of fiber and other materials (foil, plastics, etc.) with metal ends)2002..	X	D
	1997..	X	27 947
32410007	Cost of materials received from petroleum refineries and lube manufacturers mil bbl . .2002..	S	1 644 198
	1997..	S	1 362 066
00970099	All other materials and components, parts, containers, and supplies2002..	X	828 385
	1997..	X	636 512
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	397 730
	1997..	X	762 221
324199	All other petroleum and coal products manufacturing		
00900001	Total materials2002..	X	1 109 083
	1997..	X	863 780
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons . .2002..	D	D
	1997..	N	N
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons . .2002..	14.1	561
	1997..	S	1 600
32220015	Paper and paperboard containers2002..	X	D
	1997..	N	N
21211001	Coal used in the production of coke 1,000 s tons . .2002..	4 176.8	230 861
	1997..	N	N
32410007	Cost of materials received from petroleum refineries and lube manufacturers mil bbl . .2002..	S	446 772
	1997..	S	285 156
00970099	All other materials and components, parts, containers, and supplies2002..	X	308 231
	1997..	X	460 837
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	121 936
	1997..	X	116 187

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325110	Petrochemical manufacturing		
00900001	Total materials .....2002..	X	11 096 228
	.....1997..	X	9 090 633
32500002	Acids (including hydrochloric, hydrofluoric, nitric, and sulfuric), except spent acids 1,000 s tons ..2002..	D	D
	.....1997..	N	N
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃) 1,000 s tons ..2002..	D	D
	.....1997..	D	D
32518103	Chlorine (100 percent Cl basis) 1,000 s tons ..2002..	D	D
	.....1997..	D	D
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons ..2002..	7.8	1 558
	.....1997..	165.8	27 318
32500071	All other industrial inorganic chemicals .....2002..	X	26 092
	.....1997..	X	38 784
32512001	Acetylene and other industrial gases (argon, carbon dioxide, nitrogen, etc.), compressed and liquified .....2002..	X	25 090
	.....1997..	X	35 933
32510067	Other alcohols (including amyl, butyl, methyl, and propyl) .....2002..	X	D
	.....1997..	X	D
32519213	Toluene and xylene (100 percent basis) mil lb ..2002..	D	D
	.....1997..	D	D
32519205	Phenol (100 percent basis) mil lb ..2002..	1 340.1	145 825
	.....1997..	D	D
32519231	Orthoxylene and paraxylene (100 percent basis) mil lb ..2002..	D	D
	.....1997..	D	D
32411013	Benzol (benzene) (100 percent C ₆ H ₆) mil lb ..2002..	3 621.2	557 786
	.....1997..	S	480 890
32519233	Other cyclic crudes and intermediates mil lb ..2002..	D	D
	.....1997..	D	D
32510075	Acetone (natural and synthetic) mil lb ..2002..	D	D
	.....1997..	D	D
325100A5	All other miscellaneous synthetic organic chemicals .....2002..	X	16 085
	.....1997..	X	100 179
21111013	Natural gas used as a raw material bil cu ft ..2002..	D	D
	.....1997..	282.4	157 787
32411031	Ethane used as a raw material or feedstock mil lb ..2002..	5 619.2	513 428
	.....1997..	S	946 212
32411033	Ethylene used as a raw material or feedstock mil lb ..2002..	D	D
	.....1997..	S	166 353
32411035	Propane used as a raw material or feedstock mil lb ..2002..	95 081.7	580 683
	.....1997..	S	614 222
32411037	Propylene used as a raw material or feedstock mil lb ..2002..	S	1 493 491
	.....1997..	S	695 111
32411039	Butane and isobutane used as a raw material or feedstock mil lb ..2002..	P2 631.2	285 029
	.....1997..	P4 212.4	434 005
32411041	Butylene and isobutylene used as a raw material or feedstock mil lb ..2002..	D	D
	.....1997..	S	77 852
00190012	Other hydrocarbons used as raw materials or feedstocks .....2002..	X	D
	.....1997..	X	1 844 138
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	D	D
33300015	Parts and attachments for machinery and equipment .....2002..	X	34 483
	.....1997..	X	48 196
33240000	Metal containers .....2002..	X	737
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	862 762
	.....1997..	X	1 816 526
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	523 139
	.....1997..	X	403 969
325131	Inorganic dye and pigment manufacturing		
00900001	Total materials .....2002..	X	1 317 425
	.....1997..	X	1 447 204
32531201	Phosphoric acid, excluding spent (100 percent P ₂ O ₅) 1,000 s tons ..2002..	D	D
	.....1997..	3.5	1 326
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons ..2002..	88.6	3 534
	.....1997..	P209.5	11 493
32518103	Chlorine (100 percent Cl basis) 1,000 s tons ..2002..	538.3	53 408
	.....1997..	772.0	107 720
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons ..2002..	D	D
	.....1997..	D	D
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons ..2002..	104.6	18 558
	.....1997..	S	29 318
325000A5	Other industrial inorganic chemicals .....2002..	X	189 857
	.....1997..	X	214 660
32510091	Synthetic organic chemicals .....2002..	X	19 137
	.....1997..	X	14 487
21220021	Iron and ferroalloy ores (including tungsten, chromite, manganese, molybdenum, and cobalt) .....2002..	X	3 547
	.....1997..	X	70 386
21220023	Nonferrous metal ores (including copper, mercury, vanadium, titanium, platinum, etc.) .....2002..	X	619 187
	.....1997..	X	412 435
21239001	All other crude chemical nonmetallic minerals (including barite, borate, potash, fluorspar, rock salt, etc.) .....2002..	X	28 237
	.....1997..	X	13 818
32419903	Coke (including breeze), used as a raw material 1,000 s tons ..2002..	S	45 314
	.....1997..	387.5	48 004
33300015	Parts and attachments for machinery and equipment .....2002..	X	71 469
	.....1997..	X	59 521
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	38 788
	.....1997..	X	21 090
33240000	Metal containers .....2002..	X	D
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325131	Inorganic dye and pigment manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	133 582
	.....2002..	X	319 995
	.....1997..	X	75 433
00971000	Materials, ingredients, containers, and supplies, nsk	X	110 882
	.....2002..	X	
	.....1997..	X	
325132	Synthetic organic dye and pigment manufacturing		
00900001	Total materials	X	1 220 341
	.....2002..	X	1 165 180
	.....1997..	X	2 685
32518807	Hydrochloric acid (100 percent HCl)..... 1,000 s tons	25.6	4 345
	.....2002..	41.2	D
	.....1997..	D	D
32531101	Nitrogenous fertilizers, nitric acid (100 percent HNO ₃)	D	D
	.....1,000 s tons	D	D
	.....2002..	D	D
	.....1997..	D	D
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄)	P37.8	2 648
	.....1,000 s tons	13 426.8	4 534
	.....2002..		
	.....1997..		
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃) .....	.5	130
	.....1,000 s tons	D	D
	.....2002..		
	.....1997..		
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	P50.6	7 404
	.....1,000 s tons	116.8	14 766
	.....2002..		
	.....1997..		
32500071	All other industrial inorganic chemicals	X	90 949
	.....2002..	X	217 614
	.....1997..	X	D
32519300	Ethyl alcohol, pure and denatured	X	1 688
	.....2002..	X	1 397
	.....1997..	X	2 417
32510067	Other alcohols (including amyl, butyl, methyl, and propyl)	X	708
	.....2002..	2.4	1 195
	.....1997..	4.7	
32519213	Toluene and xylene (100 percent basis)	2.4	1 195
	.....mil lb	4.7	
	.....2002..		
	.....1997..		
32519233	Other cyclic crudes and intermediates	S	198 943
	.....mil lb	S	178 903
	.....2002..		
	.....1997..		
325100A5	All other miscellaneous synthetic organic chemicals	X	255 063
	.....2002..	X	302 496
	.....1997..	X	4 343
21111013	Natural gas used as a raw material	S	D
	.....bil cu ft	D	D
	.....2002..	D	D
	.....1997..	D	D
00190012	Other hydrocarbons used as raw materials or feedstocks	X	1 679
	.....2002..	X	D
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
	.....2002..	X	7 814
	.....1997..	X	
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.)	X	D
	.....2002..	X	D
	.....1997..	X	D
33300015	Parts and attachments for machinery and equipment	X	7 327
	.....2002..	X	4 889
	.....1997..	X	6 588
32221001	Paperboard containers, boxes, and corrugated paperboard	X	9 727
	.....2002..	X	11 596
	.....1997..	X	9 811
33240000	Metal containers	X	
00970099	All other materials and components, parts, containers, and supplies	X	382 311
	.....2002..	X	262 443
	.....1997..	X	225 768
00971000	Materials, ingredients, containers, and supplies, nsk	X	110 780
	.....2002..	X	
	.....1997..	X	
325181	Alkalies and chlorine manufacturing		
00900001	Total materials	X	727 478
	.....2002..	X	471 732
	.....1997..	X	2 687
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄)	53.1	3 284
	.....1,000 s tons	P53.5	D
	.....2002..	D	D
	.....1997..	D	D
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O)	D	D
	.....1,000 s tons	D	D
	.....2002..	D	D
	.....1997..	D	D
00190031	Salt in brine	1 723.6	89 729
	.....1,000 s tons	5 664.3	67 912
	.....2002..	X	39 639
	.....1997..	X	D
325000A5	Other industrial inorganic chemicals.....	X	
	.....2002..	X	
	.....1997..	X	
21200000	Crude chemical nonmetallic minerals (bauxite, phosphate rock, sulfur, barite, borate, potash, fluorspar, rock salt, etc.)	X	42 805
	.....2002..	X	N
	.....1997..	X	
33300015	Parts and attachments for machinery and equipment	X	78 582
	.....2002..	X	22 297
	.....1997..	X	23 811
32221001	Paperboard containers, boxes, and corrugated paperboard	X	D
	.....2002..	X	D
	.....1997..	X	D
33240000	Metal containers	X	D
00970099	All other materials and components, parts, containers, and supplies	X	332 439
	.....2002..	X	230 937
	.....1997..	X	95 429
00971000	Materials, ingredients, containers, and supplies, nsk	X	56 327
	.....2002..	X	
	.....1997..	X	
325182	Carbon black manufacturing		
00900001	Total materials	X	481 212
	.....2002..	X	368 595
	.....1997..	X	329 873
32411023	Carbon black feedstock	P14.7	245 546
	.....mil bbl	13.9	68 481
	.....2002..	P21.9	49 985
	.....1997..	P20.0	
21111013	Natural gas used as a raw material		
	.....bil cu ft		
	.....2002..		
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	10 921
	.....2002..	X	9 070
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	46 891
	.....2002..	X	38 545
	.....1997..	X	25 046
00971000	Materials, ingredients, containers, and supplies, nsk	X	25 449
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325188	All other basic inorganic chemical manufacturing		
00900001	Total materials	X	4 798 519
	1997..	X	4 754 091
32531201	Phosphoric acid, excluding spent (100 percent P ₂ O ₅) 1,000 s tons..	2002.. 302.6	115 135
	1997..	362.7	142 744
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons..	2002.. P1 307.7	55 201
	1997..	2 117.0	71 700
32518103	Chlorine (100 percent Cl basis) 1,000 s tons..	2002.. 375.5	60 313
	1997..	223.0	42 689
32518837	Phosphorus, elemental (technical) 1,000 s tons..	2002.. D	D
	1997..	P102.2	145 962
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons..	2002.. P252.6	32 416
	1997..	4574.7	85 193
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons..	2002.. P436.5	77 094
	1997..	623.6	116 127
00190031	Salt in brine 1,000 s tons..	2002.. S	44 074
	1997..	D	D
325000A5	Other industrial inorganic chemicals	2002.. X	517 810
	1997..	X	718 628
32510091	Synthetic organic chemicals	2002.. X	117 309
	1997..	X	90 344
21229903	Bauxite 1,000 s tons..	2002.. D	D
	1997..	S	32 371
21239200	Phosphate rock 1,000 s tons..	2002.. D	D
	1997..	2 415.2	72 510
21239303	Sulfur 1,000 l tons..	2002.. 1 097.9	36 812
	1997..	1 760.6	66 299
21220021	Iron and ferroalloy ores (including tungsten, chromite, manganese, molybdenum, and cobalt)	2002.. X	78 341
	1997..	X	174 755
21220023	Nonferrous metal ores (including copper, mercury, vanadium, titanium, platinum, etc.)	2002.. X	119 412
	1997..	X	286 260
21239001	All other crude chemical nonmetallic minerals (including barite, borate, potash, fluorspar, rock salt, etc.)	2002.. X	72 947
	1997..	X	136 543
32419903	Coke (including breeze), used as a raw material 1,000 s tons..	2002.. 207.9	30 882
	1997..	D	D
33300015	Parts and attachments for machinery and equipment	2002.. X	196 362
	1997..	X	130 137
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	25 958
	1997..	X	45 988
33240000	Metal containers	2002.. X	27 547
	1997..	X	26 067
00970099	All other materials and components, parts, containers, and supplies	2002.. X	1 898 213
	1997..	X	1 495 514
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	936 120
	1997..	X	801 589
325191	Gum and wood chemical manufacturing		
00900001	Total materials	2002.. X	390 630
	1997..	X	311 576
32519103	Tall oil and rosin	2002.. X	D
	1997..	X	D
32500001	Industrial organic and inorganic chemicals (including acids and alcohols), excluding fatty acids	2002.. X	123 782
	1997..	X	47 913
32100007	Chips, slabs, edgings, shavings, sawdust, and other wood waste	2002.. X	D
	1997..	X	73 214
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X	29 916
	1997..	X	23 323
33240000	Metal containers	2002.. X	2 120
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	2002.. X	57 002
	1997..	X	103 818
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	29 242
	1997..	X	9 760
325192	Cyclic crude and intermediate manufacturing		
00900001	Total materials	2002.. X	1 897 199
	1997..	X	N
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons..	2002.. D	D
	1997..	718.0	15 589
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃) 1,000 s tons..	2002.. D	D
	1997..	130.1	24 301
32518103	Chlorine (100 percent Cl basis) 1,000 s tons..	2002.. D	D
	1997..	P365.5	80 372
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons..	2002.. 82.4	14 798
	1997..	122.5	27 360
32500071	All other industrial inorganic chemicals	2002.. X	D
	1997..	X	30 524
32512001	Acetylene and other industrial gases (argon, carbon dioxide, nitrogen, etc.), compressed and liquified	2002.. X	24 623
	1997..	X	19 100
32519213	Toluene and xylene (100 percent basis) mil lb..	2002.. D	D
	1997..	D	D
32519205	Phenol (100 percent basis) mil lb..	2002.. D	D
	1997..	D	D
32411013	Benzol (benzene) (100 percent C ₆ H ₆) mil lb..	2002.. D	D
	1997..	1 899.0	310 801

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325192	Cyclic crude and intermediate manufacturing—Con.		
32519223	Tar, crude 1,000 s tons 2002..	D	D
	1997..	S	129 681
32519233	Other cyclic crudes and intermediates mil lb. 2002..	D	D
	1997..	56.7	205 588
325100A5	All other miscellaneous synthetic organic chemicals 2002..	X	D
	1997..	X	223 489
21111013	Natural gas used as a raw material bil cu ft. 2002..	S	6 274
	1997..	8.3	19 109
32411033	Ethylene used as a raw material or feedstock mil lb. 2002..	D	D
	1997..	747.2	174 649
32411035	Propane used as a raw material or feedstock mil lb. 2002..	D	D
	1997..	D	D
32411037	Propylene used as a raw material or feedstock mil lb. 2002..	D	D
	1997..	D	D
00190012	Other hydrocarbons used as raw materials or feedstocks 2002..	X	D
	1997..	X	D
33300015	Parts and attachments for machinery and equipment 2002..	X	7 497
	1997..	X	18 471
33240000	Metal containers 2002..	X	D
	1997..	X	6 069
00970099	All other materials and components, parts, containers, and supplies 2002..	X	348 433
	1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	76 236
	1997..	X	19 598
325193	Ethyl alcohol manufacturing		
00900001	Total materials 2002..	X	1 090 065
	1997..	X	825 651
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃) 1,000 s tons 2002..	5.4	1 339
	1997..	3.3	970
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons 2002..	95.1	19 907
	1997..	76.3	5 254
32500071	All other industrial inorganic chemicals 2002..	X	28 269
	1997..	X	D
32519300	Ethyl alcohol, pure and denatured 2002..	X	25 578
	1997..	X	D
21111013	Natural gas used as a raw material bil cu ft. 2002..	27.9	36 479
	1997..	P3.1	4 647
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.) 2002..	X	592 882
	1997..	X	510 476
33300015	Parts and attachments for machinery and equipment 2002..	X	16 514
	1997..	X	6 790
00970099	All other materials and components, parts, containers, and supplies 2002..	X	308 999
	1997..	X	136 270
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	60 098
	1997..	X	21 040
325199	All other basic organic chemical manufacturing		
00900001	Total materials 2002..	X	26 372 106
	1997..	X	25 432 178
32518807	Hydrochloric acid (100 percent HCl) 1,000 s tons 2002..	513.8	33 617
	1997..	280.6	28 628
32518809	Hydrofluoric acid (100 percent HF) 1,000 s tons 2002..	41.4	29 880
	1997..	D	D
32531101	Nitrogenous fertilizers, nitric acid (100 percent HNO ₃) 1,000 s tons 2002..	317.8	51 835
	1997..	P153.7	23 706
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄) 1,000 s tons 2002..	1 886.0	93 232
	1997..	3 097.8	64 589
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃) 1,000 s tons 2002..	1 727.2	237 774
	1997..	1 636.8	256 318
32518103	Chlorine (100 percent Cl basis) 1,000 s tons 2002..	2 967.3	400 915
	1997..	2 562.2	379 162
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons 2002..	P620.8	130 542
	1997..	P2 727.7	262 487
32500071	All other industrial inorganic chemicals 2002..	X	666 173
	1997..	X	1 163 929
32512001	Acetylene and other industrial gases (argon, carbon dioxide, nitrogen, etc.), compressed and liquified 2002..	X	246 509
	1997..	X	226 637
32519300	Ethyl alcohol, pure and denatured 2002..	X	270 345
	1997..	X	296 179
32510067	Other alcohols (including amyl, butyl, methyl, and propyl) 2002..	X	1 019 189
	1997..	X	760 197
32519213	Toluene and xylene (100 percent basis) mil lb. 2002..	2 014.2	415 221
	1997..	P754.0	122 141
32519205	Phenol (100 percent basis) mil lb. 2002..	894.2	235 060
	1997..	P2 995.4	186 253
32519231	Orthoxylene and paraxylene (100 percent basis) mil lb. 2002..	Q3 099.7	681 606
	1997..	862.0	177 886
32411013	Benzol (benzene) (100 percent C ₆ H ₆) mil lb. 2002..	3 724.8	589 603
	1997..	S	431 116
32519223	Tar, crude 1,000 s tons 2002..	D	D
	1997..	D	D
32519233	Other cyclic crudes and intermediates mil lb. 2002..	4 095.0	1 000 420
	1997..	2 007.2	552 255
32510075	Acetone (natural and synthetic) mil lb. 2002..	374.9	73 487
	1997..	S	155 472
325100A5	All other miscellaneous synthetic organic chemicals 2002..	X	3 583 285
	1997..	X	3 263 164

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325199	All other basic organic chemical manufacturing—Con.		
21111013	Natural gas used as a raw material bil cu ft . .2002..	⁹ 200.1	699 623
	1997..	² 12.7	356 514
32411031	Ethane used as a raw material or feedstock mil lb . .2002..	4 613.7	355 881
	1997..	⁴ 746.7	392 517
32411033	Ethylene used as a raw material or feedstock mil lb . .2002..	11 398.2	1 994 243
	1997..	10 413.2	2 194 693
32411035	Propane used as a raw material or feedstock mil lb . .2002..	1 267.6	133 522
	1997..	5 873.9	511 440
32411037	Propylene used as a raw material or feedstock mil lb . .2002..	8 191.8	1 420 871
	1997..	⁸ 703.7	1 449 924
32411039	Butane and isobutane used as a raw material or feedstock mil lb . .2002..	8 545.1	929 725
	1997..	3 123.2	316 607
32411041	Butylene and isobutylene used as a raw material or feedstock mil lb . .2002..	3 226.8	429 223
	1997..	S	138 594
00190012	Other hydrocarbons used as raw materials or feedstocks	X	1 625 350
	2002..	X	1 335 023
	1997..	X	
21239303	Sulfur 1,000 l tons . .2002..	716.0	24 803
	1997..	⁹ 1 262.8	31 570
32519101	Other wood chemicals (wood rosin, turpentine, etc.), including tall oil	2002..	X
	1997..	X	92 124
		X	N
325000A7	Industrial inorganic chemicals	2002..	X
	1997..	X	227 009
		X	N
32518101	Alkalies and chlorine	2002..	X
	1997..	X	10 748
		X	N
31100027	Fats, oils, greases, and tallow	2002..	X
	1997..	X	464 427
		X	N
21230009	Crude nonmetallic minerals (including limestone, clay, gypsum, talc, etc.)	2002..	X
	1997..	X	D
		X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X
	1997..	X	185 212
		X	65 268
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.)	2002..	X
	1997..	X	53 371
		X	71 449
33300015	Parts and attachments for machinery and equipment	2002..	X
	1997..	X	313 458
		X	397 248
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X
	1997..	X	119 690
		X	137 185
32610029	Plastics containers	2002..	X
	1997..	X	58 109
		X	N
33240000	Metal containers	2002..	X
	1997..	X	76 561
		X	104 305
00970099	All other materials and components, parts, containers, and supplies	2002..	X
	1997..	X	4 173 370
		X	6 173 860
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X
	1997..	X	3 195 301
		X	3 294 892
325211	Plastics material and resin manufacturing		
00900001	Total materials	2002..	X
	1997..	X	27 560 061
		X	25 258 266
32519207	Styrene (100 percent basis) mil lb . .2002..	7 325.7	1 914 016
	1997..	6 831.6	1 741 936
32519205	Phenol (100 percent basis) mil lb . .2002..	¹ 532.5	434 567
	1997..	1 608.4	543 411
32519229	Other cyclic crudes and intermediates (including melamine, phthalic anhydride, and benzene)	2002..	X
	1997..	X	872 655
		X	798 689
32519217	Synthetic organic dyes, pigments, lakes, and toners (100 percent basis) mil lb . .2002..	S	47 897
	1997..	⁹ 0.0	20 165
32510043	Acrylates and methacrylates, monomers (100 percent basis) mil lb . .2002..	2 223.2	849 372
	1997..	S	1 343 042
32510037	Alcohols, excluding ethyl (100 percent basis) mil lb . .2002..	3 157.2	562 567
	1997..	1 945.9	407 457
32510041	Formaldehyde (100 percent HCHO) mil lb . .2002..	308.6	46 858
	1997..	¹ 365.9	161 629
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.)	2002..	X
	1997..	X	53 799
		X	147 833
32510047	Vinyl acetate, monomer (100 percent basis) mil lb . .2002..	1 043.9	266 451
	1997..	¹ 066.5	290 928
32510049	Vinyl chloride, monomer (100 percent basis) mil lb . .2002..	11 757.6	1 857 101
	1997..	6 822.4	1 469 781
325100A3	Other synthetic organic chemicals (including acrylonitrile and cellulose acetate)	2002..	X
	1997..	X	1 361 350
		X	1 444 367
32411031	Ethane used as a raw material or feedstock mil lb . .2002..	10 686.0	982 686
	1997..	⁵ 983.5	539 850
32411033	Ethylene used as a raw material or feedstock mil lb . .2002..	20 516.5	3 839 488
	1997..	² 076.7	4 519 540
32411035	Propane used as a raw material or feedstock mil lb . .2002..	15 084.4	1 293 355
	1997..	⁴ 162.5	516 133
32411037	Propylene used as a raw material or feedstock mil lb . .2002..	9 369.0	1 632 018
	1997..	9 792.6	1 875 646
32411043	Butadiene used as a raw material or feedstock mil lb . .2002..	1 267.2	251 413
	1997..	⁵ 95.8	126 792
32411045	Other refined petroleum products used as a raw material or feedstock (butane, isobutane, butylene, isobutylene, etc.) mil lb . .2002..	⁵ 286.1	1 117 113
	1997..	2 057.6	435 440
00190002	Other hydrocarbons used as raw materials or feedstocks (including crude oil, natural gas and still gas)	2002..	X
	1997..	X	202 398
		X	870 548

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325211	Plastics material and resin manufacturing—Con.		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	2 198 635
	.....1997..	X	1 658 653
325000B7	Inorganic chemicals.....2002..	X	672 075
	.....1997..	X	660 285
32518200	Carbon black mil lb..2002..	126.7	84 244
	.....1997..	P30.4	21 493
32500061	All other miscellaneous chemicals (including additives, driers, modifiers, biocides, and dispersants).....2002..	X	1 664 208
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	244 335
	.....1997..	X	125 204
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	2 760 793
	.....1997..	X	3 251 882
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	2 350 667
	.....1997..	X	2 287 562
325212	Synthetic rubber manufacturing		
00900001	Total materials .....2002..	X	2 525 755
	.....1997..	X	2 975 475
32519207	Styrene (100 percent basis)..... mil lb..2002..	785.2	214 164
	.....1997..	788.3	209 507
32519205	Phenol (100 percent basis) mil lb..2002..	D	D
	.....1997..	D	D
32519229	Other cyclic crudes and intermediates (including melamine, phthalic anhydride, and benzene).....2002..	X	D
	.....1997..	X	D
32519217	Synthetic organic dyes, pigments, lakes, and toners (100 percent basis)..... mil lb..2002..	9.5	1 264
	.....1997..	D	D
32510043	Acrylates and methacrylates, monomers (100 percent basis)..... mil lb..2002..	D	D
	.....1997..	115.9	57 029
32510037	Alcohols, excluding ethyl (100 percent basis)..... mil lb..2002..	7.0	2 863
	.....1997..	98.4	1 979
32510041	Formaldehyde (100 percent HCHO) mil lb..2002..	-	6
	.....1997..	D	D
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.).....2002..	X	106 354
	.....1997..	X	121 091
32510047	Vinyl acetate, monomer (100 percent basis) mil lb..2002..	D	D
	.....1997..	D	D
32510049	Vinyl chloride, monomer (100 percent basis) mil lb..2002..	D	D
	.....1997..	D	D
325100A3	Other synthetic organic chemicals (including acrylonitrile and cellulose acetate).....2002..	X	47 061
	.....1997..	X	198 035
32411031	Ethane used as a raw material or feedstock mil lb..2002..	D	D
	.....1997..	D	D
32411033	Ethylene used as a raw material or feedstock mil lb..2002..	321.3	66 563
	.....1997..	P364.0	83 427
32411035	Propane used as a raw material or feedstock mil lb..2002..	D	D
	.....1997..	D	D
32411037	Propylene used as a raw material or feedstock mil lb..2002..	165.2	30 522
	.....1997..	S	51 878
32411043	Butadiene used as a raw material or feedstock mil lb..2002..	3 001.4	633 323
	.....1997..	P3 128.4	643 084
32411045	Other refined petroleum products used as a raw material or feedstock (butane, isobutane, butylene, isobutylene, etc.)..... mil lb..2002..	D	D
	.....1997..	670.6	237 056
00190002	Other hydrocarbons used as raw materials or feedstocks (including crude oil, natural gas and still gas).....2002..	X	22 912
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	91 925
	.....1997..	X	124 349
325000B7	Inorganic chemicals.....2002..	X	54 024
	.....1997..	X	71 255
32518200	Carbon black mil lb..2002..	148.6	55 240
	.....1997..	S	48 868
32500061	All other miscellaneous chemicals (including additives, driers, modifiers, biocides, and dispersants).....2002..	X	186 417
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	82 777
	.....1997..	X	41 577
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	394 906
	.....1997..	X	666 741
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	231 963
	.....1997..	X	220 880
325221	Cellulosic organic fiber manufacturing		
00900001	Total materials .....2002..	X	178 734
	.....1997..	X	436 437
32521145	Polypropylene resins (dry basis)..... mil lb..2002..	D	D
	.....1997..	-	-
32210027	Woodpulp (air dry basis) 1,000 s tons..2002..	D	D
	.....1997..	N	N
32518803	Sulfuric acid, new and spent (100 percent H ₂ SO ₄) 1,000 s tons..2002..	D	D
	.....1997..	N	N
32518847	Carbon disulfide.....2002..	X	D
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325221	Cellulosic organic fiber manufacturing—Con.		
32519903	Acetic acid.....2002..	X	D
	1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	D
	1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	8 714
	1997..	X	-
325222	Noncellulosic organic fiber manufacturing		
00900001	Total materials.....2002..	X	3 670 758
	1997..	X	5 055 440
32510039	Acrylonitrile (100 percent basis)..... mil lb..2002..	D	D
	1997..	D	D
32510069	Caprolactam (100 percent basis)..... mil lb..2002..	P462.7	233 646
	1997..	D	D
32510071	Glycols (ethylene, propylene, etc.) (100 percent basis)..... mil lb..2002..	983.1	207 405
	1997..	1 244.6	396 836
32519209	Dimethyl terephthalate (DMT) (100 percent basis)..... mil lb..2002..	D	D
	1997..	742.6	215 335
32519211	Terephthalic acid (TPA) (100 percent basis)..... mil lb..2002..	D	D
	1997..	2 760.0	731 624
32510087	All other synthetic organic chemicals.....2002..	X	D
	1997..	X	954 882
32521145	Polypropylene resins (dry basis)..... mil lb..2002..	9697.3	248 688
	1997..	786.5	367 879
32521137	Nylon resins (dry basis)..... mil lb..2002..	716.3	360 795
	1997..	443.1	322 729
32521107	All other plastics resins (dry basis)..... mil lb..2002..	115.6	40 808
	1997..	928.4	330 843
32518803	Sulfuric acid, new and spent (100 percent H ₂ SO ₄)..... 1,000 s tons..2002..	D	D
	1997..	N	N
32519903	Acetic acid.....2002..	X	D
	1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	100 749
	1997..	X	97 521
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	1 726 974
	1997..	X	824 542
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	201 893
	1997..	X	302 120
325311	Nitrogenous fertilizer manufacturing		
00900001	Total materials.....2002..	X	1 653 308
	1997..	X	1 603 708
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)..... 1,000 s tons..2002..	S	258 765
	1997..	S	267 359
32531113	Nitrogenous fertilizers, ammoniating and nitrogen solutions, including ammonium nitrate and urea (100 percent N)..... 1,000 s tons..2002..	S	26 783
	1997..	644.7	77 741
32531111	Nitrogenous fertilizers, ammonium nitrate (solid only) (100 percent NH ₄ NO ₃)..... 1,000 s tons..2002..	D	D
	1997..	D	D
32531107	Nitrogenous fertilizers, ammonium sulfate (100 percent (NH ₄) ₂ SO ₄)..... 1,000 s tons..2002..	D	D
	1997..	-	-
32531115	Nitrogenous fertilizers, urea (solid only) (100 percent CO(NH ₂) ₂)..... 1,000 s tons..2002..	79.1	9 768
	1997..	96.7	18 114
32531109	Other nitrogenous materials, including calcium cyanamide and limestone mixtures..... 1,000 s tons..2002..	S	4 039
	1997..	D	D
32531203	Superphosphates used in mixed goods (100 percent P ₂ O ₅)..... 1,000 s tons..2002..	D	D
	1997..	D	D
32531201	Phosphoric acid, excluding spent (100 percent P ₂ O ₅)..... 1,000 s tons..2002..	D	D
	1997..	D	D
21239101	Muriate of potash (all grades) (60-62 percent K ₂ O)..... 1,000 s tons..2002..	D	D
	1997..	S	149
21239103	Other potassic materials, including potassium nitrate and sulfate..... 1,000 s tons..2002..	D	D
	1997..	P1.0	299
00190029	Inert fillers (including secondary plant food, soil conditioners, sand, limestone, peat, nut hulls, etc.)..... 1,000 s tons..2002..	D	D
	1997..	S	2 426
32518803	Sulfuric acid, new and spent (100 percent H ₂ SO ₄)..... 1,000 s tons..2002..	D	D
	1997..	P88.2	2 815
21239200	Phosphate rock..... 1,000 s tons..2002..	D	D
	1997..	D	D
21239303	Sulfur..... 1,000 l tons..2002..	P207.6	5 396
	1997..	D	D
21111013	Natural gas used as a raw material..... bil cu ft..2002..	347.6	1 035 198
	1997..	S	1 008 370
32220009	Bags (including shipping sacks, multiwall bags, and polyethylene liners), excluding textile.....2002..	X	1 618
	1997..	X	2 818
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	116 542
	1997..	X	122 826
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	128 830
	1997..	X	43 974

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325312	Phosphatic fertilizer manufacturing		
00900001	Total materials	X	2 432 698
	1997..	X	3 138 890
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)	1,000 s tons ..	
	2002..	2 579.1	377 229
	1997..	3 276.8	534 759
32531113	Nitrogenous fertilizers, ammoniating and nitrogen solutions, including ammonium nitrate and urea (100 percent N)	1,000 s tons ..	
	2002..	P142.5	14 694
	1997..	D	D
32531111	Nitrogenous fertilizers, ammonium nitrate (solid only) (100 percent NH ₄ NO ₃)	1,000 s tons ..	
	2002..	S	2 423
	1997..	S	7 192
32531107	Nitrogenous fertilizers, ammonium sulfate (100 percent (NH ₄) ₂ SO ₄)	1,000 s tons ..	
	2002..	P5.2	1 029
	1997..	S	4 610
32531115	Nitrogenous fertilizers, urea (solid only) (100 percent CO(NH ₂) ₂)	1,000 s tons ..	
	2002..	P126.5	16 603
	1997..	D	D
32531109	Other nitrogenous materials, including calcium cyanamide and limestone mixtures	1,000 s tons ..	
	2002..	D	D
	1997..	D	D
32531203	Superphosphates used in mixed goods (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	D	D
	1997..	D	D
32531201	Phosphoric acid, excluding spent (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	D	D
	1997..	D	D
32531205	Other phosphatic fertilizer materials, including diammonium phosphate and monoammonium phosphate (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	S	8 999
	1997..	107.0	19 072
21239101	Muriate of potash (all grades) (60-62 percent K ₂ O)	1,000 s tons ..	
	2002..	S	6 048
	1997..	167.2	16 813
21239103	Other potassic materials, including potassium nitrate and sulfate	1,000 s tons ..	
	2002..	S	3 097
	1997..	84.7	12 354
00190029	Inert fillers (including secondary plant food, soil conditioners, sand, limestone, peat, nut hulls, etc.)	1,000 s tons ..	
	2002..	400.9	10 547
	1997..	P640.7	28 330
32518803	Sulfuric acid, new and spent (100 percent H ₂ SO ₄)	1,000 s tons ..	
	2002..	1 097.1	30 471
	1997..	1 998.1	63 434
21239200	Phosphate rock	1,000 s tons ..	
	2002..	P31 899.6	955 890
	1997..	P40 363.6	1 025 390
21239303	Sulfur	1,000 l tons ..	
	2002..	P10 268.2	436 651
	1997..	P9 814.1	590 522
21111013	Natural gas used as a raw material	bil cu ft. ..	
	2002..	26.9	87 199
	1997..	S	80 279
32220009	Bags (including shipping sacks, multiwall bags, and polyethylene liners), excluding textile	2002..	
	1997..	X	4 673
00970099	All other materials and components, parts, containers, and supplies	2002..	
	1997..	X	4 158
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	
	1997..	X	186 050
		X	311 143
		X	12 696
		X	24 414
325314	Fertilizer (mixing only) manufacturing		
00900001	Total materials	X	1 624 908
	1997..	X	1 897 773
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)	1,000 s tons ..	
	2002..	S	19 650
	1997..	P471.5	92 216
32531113	Nitrogenous fertilizers, ammoniating and nitrogen solutions, including ammonium nitrate and urea (100 percent N)	1,000 s tons ..	
	2002..	S	46 798
	1997..	S	92 536
32531111	Nitrogenous fertilizers, ammonium nitrate (solid only) (100 percent NH ₄ NO ₃)	1,000 s tons ..	
	2002..	S	27 188
	1997..	P228.8	37 732
32531107	Nitrogenous fertilizers, ammonium sulfate (100 percent (NH ₄) ₂ SO ₄)	1,000 s tons ..	
	2002..	944.7	83 450
	1997..	831.3	78 117
32531115	Nitrogenous fertilizers, urea (solid only) (100 percent CO(NH ₂) ₂)	1,000 s tons ..	
	2002..	S	109 777
	1997..	779.8	129 318
32531109	Other nitrogenous materials, including calcium cyanamide and limestone mixtures	1,000 s tons ..	
	2002..	S	22 992
	1997..	P200.8	59 376
32531203	Superphosphates used in mixed goods (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	S	15 610
	1997..	S	54 758
32531201	Phosphoric acid, excluding spent (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	S	45 947
	1997..	P651.1	141 170
32531205	Other phosphatic fertilizer materials, including diammonium phosphate and monoammonium phosphate (100 percent P ₂ O ₅)	1,000 s tons ..	
	2002..	S	95 635
	1997..	S	119 876
21239101	Muriate of potash (all grades) (60-62 percent K ₂ O)	1,000 s tons ..	
	2002..	S	51 617
	1997..	S	81 586
21239103	Other potassic materials, including potassium nitrate and sulfate	1,000 s tons ..	
	2002..	S	42 837
	1997..	259.8	46 778
00190029	Inert fillers (including secondary plant food, soil conditioners, sand, limestone, peat, nut hulls, etc.)	1,000 s tons ..	
	2002..	S	79 493
	1997..	S	100 442
32518803	Sulfuric acid, new and spent (100 percent H ₂ SO ₄)	1,000 s tons ..	
	2002..	P58.6	2 464
	1997..	110.8	13 773
21239200	Phosphate rock	1,000 s tons ..	
	2002..	S	6 759
	1997..	93.5	1 603

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325314	Fertilizer (mixing only) manufacturing—Con.		
21239303	Sulfur 1,000 l tons ..2002..	D	D
	..... 1997..	D	D
21111013	Natural gas used as a raw material bil cu ft ..2002..	D	D
	..... 1997..	D	D
32220009	Bags (including shipping sacks, multiwall bags, and polyethylene liners), excluding textile .....2002..	X	35 921
	..... 1997..	X	75 952
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	547 713
	..... 1997..	X	405 660
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	388 952
	..... 1997..	X	354 861
325320	Pesticide and other agricultural chemical manufacturing		
00900001	Total materials .....2002..	X	2 806 107
	..... 1997..	X	3 478 796
32411007	Petroleum distillates used as solvents .....2002..	X	35 047
	..... 1997..	X	59 618
32510045	Other synthetic organic chemical solvents .....2002..	X	45 720
	..... 1997..	X	122 626
32510061	Synthetic organic pesticides and related synthetic organic agricultural chemical toxicants .....2002..	X	1 025 342
	..... 1997..	X	893 683
32518845	Inorganic chemical toxicants .....2002..	X	57 110
	..... 1997..	X	123 032
32561301	Surfactants .....2002..	X	63 580
	..... 1997..	X	66 041
32500013	All other miscellaneous organic and inorganic chemicals .....2002..	X	938 101
	..... 1997..	X	1 057 339
32610029	Plastics containers .....2002..	X	71 263
	..... 1997..	X	97 174
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	39 227
	..... 1997..	X	59 354
33240000	Metal containers .....2002..	X	34 721
	..... 1997..	X	34 939
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	313 225
	..... 1997..	X	723 887
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	182 771
	..... 1997..	X	241 103
325411	Medicinal and botanical manufacturing		
00900001	Total materials .....2002..	X	3 969 645
	..... 1997..	X	4 997 852
32541113	Antibiotics (bulk), for human and veterinary use .....2002..	X	D
	..... 1997..	X	D
32541115	Antibiotics (bulk), for animal feeds .....2002..	X	D
	..... 1997..	X	D
32541101	Vitamins, natural and synthetic, for human and veterinary use (bulk) .....2002..	X	460 161
	..... 1997..	X	224 062
32541103	Vitamins, natural and synthetic, for animal feeds (bulk) .....2002..	X	122 053
	..... 1997..	X	36 615
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.) .....2002..	X	D
	..... 1997..	X	209 274
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.) .....2002..	X	5 970
	..... 1997..	X	16 293
32541000	Blood derivatives and extenders .....2002..	X	D
	..... 1997..	X	D
32541107	All other bulk medicinal and botanical uncompounded drugs (excluding antibiotics and vitamins) .....2002..	X	547 685
	..... 1997..	X	386 955
32599807	Gelatin (pharmaceutical grade) and gelatin capsules .....2002..	X	10 450
	..... 1997..	X	16 523
32510036	Alcohols, excluding ethyl (100 percent basis) .....2002..	X	9 945
	..... 1997..	N	N
32519201	Cyclic crudes and intermediates (including organic colors) .....2002..	X	D
	..... 1997..	X	3 871
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons) .....2002..	X	235 990
	..... 1997..	X	157 290
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers) .....2002..	X	4 887
	..... 1997..	X	48 989
33211500	Metal closures and crowns for containers .....2002..	X	D
	..... 1997..	X	1 141
32310003	Labels, coupons, instructions, and other printed material .....2002..	X	5 399
	..... 1997..	X	14 315
32610029	Plastics containers .....2002..	X	D
	..... 1997..	X	19 149
32721301	Glass containers .....2002..	X	1 510
	..... 1997..	X	4 047
33240000	Metal containers .....2002..	X	1 654
	..... 1997..	X	2 382
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	21 463
	..... 1997..	X	30 157
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	241 820
	..... 1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	76 618
	..... 1997..	X	488 646

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325412	Pharmaceutical preparation manufacturing		
00900001	Total materials 2002..	X	26 269 565
	1997..	X	15 102 149
32541113	Antibiotics (bulk), for human and veterinary use 2002..	X	1 549 812
	1997..	X	2 855 535
32541115	Antibiotics (bulk), for animal feeds 2002..	X	26 050
	1997..	X	96 987
32541101	Vitamins, natural and synthetic, for human and veterinary use (bulk) 2002..	X	1 261 507
	1997..	X	1 115 425
32541103	Vitamins, natural and synthetic, for animal feeds (bulk) 2002..	X	132 491
	1997..	X	D
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.) 2002..	X	114 503
	1997..	X	99 093
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.) 2002..	X	133 294
	1997..	X	95 024
32541000	Blood derivatives and extenders 2002..	X	D
	1997..	X	D
32541107	All other bulk medicinal and botanical uncompounded drugs (excluding antibiotics and vitamins) 2002..	X	11 322 909
	1997..	X	5 139 065
32599807	Gelatin (pharmaceutical grade) and gelatin capsules 2002..	X	189 246
	1997..	X	88 846
325000C2	Industrial inorganic chemicals (salts of sodium, calcium, etc.), excluding medicinals 2002..	X	220 968
	1997..	X	N
32510036	Alcohols, excluding ethyl (100 percent basis) 2002..	X	142 661
	1997..	X	N
32519201	Cyclic crudes and intermediates (including organic colors) 2002..	X	234 770
	1997..	X	274 476
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons) 2002..	X	4 003 890
	1997..	X	415 437
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers) 2002..	X	461 935
	1997..	X	307 792
33211500	Metal closures and crowns for containers 2002..	X	D
	1997..	X	46 774
32310003	Labels, coupons, instructions, and other printed material 2002..	X	308 076
	1997..	X	389 491
32610029	Plastics containers 2002..	X	410 671
	1997..	X	520 573
32721301	Glass containers 2002..	X	121 061
	1997..	X	201 919
33240000	Metal containers 2002..	X	58 154
	1997..	X	52 533
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	413 509
	1997..	X	618 969
00970099	All other materials and components, parts, containers, and supplies 2002..	X	2 895 344
	1997..	X	2 026 023
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	2 171 831
	1997..	X	756 432
325413	In-vitro diagnostic substance manufacturing		
00900001	Total materials 2002..	X	1 684 730
	1997..	X	2 037 179
32541113	Antibiotics (bulk), for human and veterinary use 2002..	X	9 456
	1997..	X	4 180
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.) 2002..	X	366
	1997..	X	D
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.) 2002..	X	1 650
	1997..	X	37 286
32541000	Blood derivatives and extenders 2002..	X	56 449
	1997..	X	101 058
32541107	All other bulk medicinal and botanical uncompounded drugs (excluding antibiotics and vitamins) 2002..	X	86 054
	1997..	X	110 966
32599807	Gelatin (pharmaceutical grade) and gelatin capsules 2002..	X	D
	1997..	X	D
32510036	Alcohols, excluding ethyl (100 percent basis) 2002..	X	2 513
	1997..	X	N
32519201	Cyclic crudes and intermediates (including organic colors) 2002..	X	D
	1997..	X	47 566
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons) 2002..	X	28 115
	1997..	X	133 389
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers) 2002..	X	64 050
	1997..	X	617 030
33211500	Metal closures and crowns for containers 2002..	X	1 434
	1997..	X	16 698
32310003	Labels, coupons, instructions, and other printed material 2002..	X	40 852
	1997..	X	36 848
32610029	Plastics containers 2002..	X	24 635
	1997..	X	47 380
32721301	Glass containers 2002..	X	32 529
	1997..	X	43 205

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325413	In-vitro diagnostic substance manufacturing—Con.		
3324000	Metal containers .....2002..	X	D
	.....1997..	X	1 698
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	41 266
	.....1997..	X	66 808
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 108 894
	.....1997..	X	662 080
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	181 156
	.....1997..	X	86 505
325414	Biological product (except diagnostic) manufacturing		
00900001	Total materials .....2002..	X	1 870 702
	.....1997..	X	1 584 042
32541113	Antibiotics (bulk), for human and veterinary use .....2002..	X	29 108
	.....1997..	X	D
32541115	Antibiotics (bulk), for animal feeds .....2002..	X	D
	.....1997..	X	-
32541101	Vitamins, natural and synthetic, for human and veterinary use (bulk) .....2002..	X	D
	.....1997..	X	10 948
32541103	Vitamins, natural and synthetic, for animal feeds (bulk) .....2002..	X	D
	.....1997..	X	D
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.) .....2002..	X	14 710
	.....1997..	X	13 284
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.) .....2002..	X	22 406
	.....1997..	X	32 059
32541000	Blood derivatives and extenders .....2002..	X	877 597
	.....1997..	X	497 800
32541107	All other bulk medicinal and botanical uncompounded drugs (excluding antibiotics and vitamins) .....2002..	X	88 676
	.....1997..	X	28 657
32599807	Gelatin (pharmaceutical grade) and gelatin capsules .....2002..	X	D
	.....1997..	X	D
32510036	Alcohols, excluding ethyl (100 percent basis) .....2002..	X	2 381
	.....1997..	X	N
32519201	Cyclic crudes and intermediates (including organic colors) .....2002..	X	D
	.....1997..	X	D
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons) .....2002..	X	45 742
	.....1997..	X	14 947
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers) .....2002..	X	21 418
	.....1997..	X	19 247
33211500	Metal closures and crowns for containers .....2002..	X	4 226
	.....1997..	X	2 858
32310003	Labels, coupons, instructions, and other printed material .....2002..	X	15 706
	.....1997..	X	8 938
32610029	Plastics containers .....2002..	X	30 525
	.....1997..	X	10 991
32721301	Glass containers .....2002..	X	24 234
	.....1997..	X	19 527
33240000	Metal containers .....2002..	X	D
	.....1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	12 326
	.....1997..	X	12 467
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	430 416
	.....1997..	X	437 395
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	235 838
	.....1997..	X	455 571
325510	Paint and coating manufacturing		
00900001	Total materials .....2002..	X	9 556 192
	.....1997..	X	8 917 727
31120012	Vegetable oil .....2002..	X	49 495
	.....1997..	X	N
32513102	Titanium dioxide pigments, composite .....2002..	X	877 735
	.....1997..	X	820 235
32513109	Other inorganic pigments (including chrome colors, zinc oxide, iron oxide, metallics, and predispersed colorants) .....2002..	X	329 499
	.....1997..	X	203 935
32519215	Organic pigments, lakes, and toners (including predispersed colorants) .....2002..	X	451 871
	.....1997..	X	504 812
32519225	Hydrocarbon solvents (toluene, xylene, etc.) .....2002..	X	206 432
	.....1997..	X	223 480
32510033	Alcohol solvents (butyl, ethyl, isopropyl, etc.) .....2002..	X	62 505
	.....1997..	X	77 710
32510081	Ester solvents (ethyl acetate, butyl acetate, etc.) .....2002..	X	139 691
	.....1997..	X	103 401
32510079	Ketone solvents (acetone, MEK, MIBK, etc.) .....2002..	X	101 876
	.....1997..	X	106 616
32510097	Other solvents .....2002..	X	188 878
	.....1997..	X	134 021
32510035	Glycol and glycol derivative solvents .....2002..	X	141 803
	.....1997..	X	107 974
32521117	Alkyd resins .....2002..	X	411 324
	.....1997..	X	310 878
32521147	Acrylic plastics resins, latex .....2002..	X	453 684
	.....1997..	X	N
32521149	Other acrylic plastics resins .....2002..	X	144 417
	.....1997..	X	N
32521121	Vinyl resins .....2002..	X	147 329
	.....1997..	X	166 259

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325510	Paint and coating manufacturing—Con.		
32521127	Epoxy resins2002..	X	254 779
	1997..	X	231 697
32521125	Polyester resins2002..	X	176 498
	1997..	X	211 067
00190069	Other resins2002..	X	342 889
	1997..	X	337 349
32521129	Urethane and isocyanates resins2002..	X	290 316
	1997..	X	214 259
32799215	Minerals and earths, ground or otherwise treated2002..	X	329 578
	1997..	X	359 882
32500061	All other miscellaneous chemicals (including additives, driers, modifiers, biocides, and dispersants)2002..	X	735 724
	1997..	X	543 399
33240000	Metal containers2002..	X	379 163
	1997..	X	395 559
32610029	Plastics containers2002..	X	150 037
	1997..	X	140 897
00190001	Other containers2002..	X	40 028
	1997..	X	33 072
00970099	All other materials and components, parts, containers, and supplies2002..	X	1 593 816
	1997..	X	1 754 838
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	1 556 825
	1997..	X	1 936 387
325520	Adhesive manufacturing		
00900001	Total materials2002..	X	3 297 787
	1997..	X	3 561 013
32521135	Polyvinyl acetate resins, purchased mil lb..2002..	² 240.5	90 381
	1997..	³ 358.5	179 651
32521109	All other plastics resins, purchased mil lb..2002..	³ 365.3	211 197
	1997..	³ 350.1	268 424
32521205	Synthetic rubber mil lb..2002..	S	107 237
	1997..	S	207 343
31122115	Starch and dextrin mil lb..2002..	160.9	33 368
	1997..	S	42 953
32510095	All other miscellaneous industrial organic chemicals (including synthetic organic)2002..	X	401 459
	1997..	X	676 336
325000A3	Industrial inorganic chemicals2002..	X	235 382
	1997..	X	323 612
32410015	Refined petroleum products (mineral oil, naphtha solvents, petrolatum, waxes, etc.)2002..	X	296 010
	1997..	X	237 836
21230003	Nonmetallic minerals and earths, ground or otherwise treated, used as extenders and fillers2002..	X	83 613
	1997..	X	118 229
32610032	Plastics containers (including bottles, jars, tubes, tubs, etc.)2002..	X	143 000
	1997..	X	N
33240000	Metal containers2002..	X	47 808
	1997..	X	123 882
32220003	Paper and paperboard boxes (including fiber cans, tubes, and drums)2002..	X	82 254
	1997..	X	196 062
00970099	All other materials and components, parts, containers, and supplies2002..	X	812 224
	1997..	X	541 683
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	753 854
	1997..	X	645 002
325611	Soap and other detergent manufacturing		
00900001	Total materials2002..	X	5 638 863
	1997..	X	6 099 318
32561303	Bulk surface active intermediates (active weight) mil lb..2002..	996.6	369 106
	1997..	173.4	80 161
32561305	Bulk surface active agents primarily for detergent purposes (active weight), excluding intermediates mil lb..2002..	1 293.7	693 619
	1997..	S	553 477
32561307	Other bulk surface active agents (emulsifiers, wetting agents, penetrants, etc.) (active weight), excluding intermediates mil lb..2002..	194.4	99 079
	1997..	⁶ 64.6	38 581
32561100	Glycerin (100 percent) mil lb..2002..	D	D
	1997..	D	D
31120013	Vegetable oil mil lb..2002..	96.1	20 752
	1997..	D	D
32562000	Perfume oil mixtures and blends mil lb..2002..	41.5	263 168
	1997..	42.1	238 746
32519901	Fatty acids mil lb..2002..	226.8	61 454
	1997..	230.1	123 915
31161301	Grease and inedible tallow mil lb..2002..	S	56 094
	1997..	785.4	159 066
32518103	Chlorine (100 percent Cl basis) 1,000 s tons..2002..	D	D
	1997..	S	5 976
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons..2002..	375.8	48 709
	1997..	⁷ 768.6	99 965
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons..2002..	⁴ 30.1	82 834
	1997..	1715.0	89 277
32518821	Sodium tripolyphosphate (STPP) (100 percent NaPO ₃) 1,000 s tons..2002..	S	85 995
	1997..	158.3	84 490
32518819	All other potassium and sodium compounds2002..	X	344 365
	1997..	X	227 514
32410013	Refined petroleum products (including mineral oil, naphtha solvents, petrolatum, waxes, etc.)2002..	X	30 725
	1997..	X	74 619

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325611	Soap and other detergent manufacturing—Con.		
32500005	All other organic and inorganic chemicals2002..	X	715 125
	1997..	X	1 510 914
32310003	Labels, coupons, instructions, and other printed material2002..	X	60 803
	1997..	X	76 955
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	407 089
	1997..	X	542 547
33240000	Metal containers2002..	X	25 651
	1997..	X	31 870
32610029	Plastics containers2002..	X	518 476
	1997..	X	498 494
32610037	Fabricated plastics products, including dispensing pumps and trigger and mist sprayers (excluding containers)2002..	X	121 268
	1997..	X	88 312
00970099	All other materials and components, parts, containers, and supplies2002..	X	888 178
	1997..	X	474 907
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	662 275
	1997..	X	944 964
325612	Polish and other sanitation good manufacturing		
00900001	Total materials2002..	X	1 939 768
	1997..	X	2 402 095
32561303	Bulk surface active intermediates (active weight) mil lb .2002..	9191.9	78 144
	1997..	S	26 955
32561305	Bulk surface active agents primarily for detergent purposes (active weight), excluding intermediates mil lb .2002..	S	41 991
	1997..	S	35 698
32561307	Other bulk surface active agents (emulsifiers, wetting agents, penetrants, etc.) (active weight), excluding intermediates mil lb .2002..	98.7	6 306
	1997..	51.7	35 588
32561100	Glycerin (100 percent) mil lb .2002..	.5	349
	1997..	S	621
31120013	Vegetable oil mil lb .2002..	9.6	250
	1997..	P5.0	2 036
32562000	Perfume oil mixtures and blends mil lb .2002..	S	51 415
	1997..	P13.9	101 664
32519901	Fatty acids mil lb .2002..	S	1 984
	1997..	923.6	10 252
31161301	Grease and inedible tallow mil lb .2002..	S	13 880
	1997..	S	9 738
32518103	Chlorine (100 percent Cl basis) 1,000 s tons .2002..	P153.4	18 515
	1997..	P138.1	25 028
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons .2002..	93.5	601
	1997..	64.6	5 146
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons .2002..	P247.0	43 096
	1997..	P123.3	31 396
32518821	Sodium tripolyphosphate (STPP) (100 percent NaPO ₃) 1,000 s tons .2002..	P2.1	1 270
	1997..	94.6	3 251
32518819	All other potassium and sodium compounds2002..	X	16 760
	1997..	X	21 422
32410013	Refined petroleum products (including mineral oil, naphtha solvents, petrolatum, waxes, etc.)2002..	X	75 707
	1997..	X	54 463
32500005	All other organic and inorganic chemicals2002..	X	424 107
	1997..	X	368 003
32310003	Labels, coupons, instructions, and other printed material2002..	X	44 635
	1997..	X	59 245
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	117 182
	1997..	X	134 815
33240000	Metal containers2002..	X	74 010
	1997..	X	132 489
32610029	Plastics containers2002..	X	283 739
	1997..	X	275 779
32610037	Fabricated plastics products, including dispensing pumps and trigger and mist sprayers (excluding containers)2002..	X	82 086
	1997..	X	108 025
00970099	All other materials and components, parts, containers, and supplies2002..	X	317 604
	1997..	X	283 295
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	246 137
	1997..	X	677 186
325613	Surface active agent manufacturing		
00900001	Total materials2002..	X	3 162 879
	1997..	X	2 332 559
32561303	Bulk surface active intermediates (active weight) mil lb .2002..	D	D
	1997..	117.5	71 675
32561305	Bulk surface active agents primarily for detergent purposes (active weight), excluding intermediates mil lb .2002..	D	D
	1997..	550.3	110 785
32561307	Other bulk surface active agents (emulsifiers, wetting agents, penetrants, etc.) (active weight), excluding intermediates mil lb .2002..	27.1	18 487
	1997..	53.6	40 792
32561100	Glycerin (100 percent) mil lb .2002..	2.2	1 283
	1997..	13.4	7 324
31120013	Vegetable oil mil lb .2002..	S	17 606
	1997..	176.6	56 709
32562000	Perfume oil mixtures and blends mil lb .2002..	D	D
	1997..	D	D
32519901	Fatty acids mil lb .2002..	S	35 246
	1997..	S	125 771
31161301	Grease and inedible tallow mil lb .2002..	10.7	3 276
	1997..	170.3	42 607
32518103	Chlorine (100 percent Cl basis) 1,000 s tons .2002..	D	D
	1997..	D	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325613	Surface active agent manufacturing—Con.		
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons . .2002..	D	D
	1997..	6.4	1 258
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons . .2002..	8.9	1 632
	1997..	65.7	11 414
32518821	Sodium tripolyphosphate (STPP) (100 percent NaP0) 1,000 s tons . .2002..	D	D
	1997..	D	D
32518819	All other potassium and sodium compounds2002..	X	6 589
	1997..	X	13 643
32410013	Refined petroleum products (including mineral oil, naphtha solvents, petrolatum, waxes, etc.)2002..	X	23 428
	1997..	X	192 989
32500005	All other organic and inorganic chemicals2002..	X	450 680
	1997..	X	502 294
32310003	Labels, coupons, instructions, and other printed material2002..	X	578
	1997..	X	1 530
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	7 060
	1997..	X	9 784
33240000	Metal containers2002..	X	25 795
	1997..	X	13 955
32610029	Plastics containers2002..	X	28 214
	1997..	X	15 144
32610037	Fabricated plastics products, including dispensing pumps and trigger and mist sprayers (excluding containers)2002..	X	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies2002..	X	453 604
	1997..	X	382 980
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	292 687
	1997..	X	727 170
325620	Toilet preparation manufacturing		
00900001	Total materials2002..	X	8 516 681
	1997..	X	6 524 676
32562001	Perfume oil mixtures and blends2002..	X	599 005
	1997..	X	N
32510051	Perfume materials (synthetic organic)2002..	X	317 826
	1997..	X	66 473
32599809	Essential oils, natural2002..	X	172 369
	1997..	X	173 540
32561309	Bulk surface active agents (excluding sulfonated oils and fats)2002..	X	283 094
	1997..	X	329 676
31100027	Fats, oils, greases, and tallow2002..	X	143 376
	1997..	X	154 341
32410015	Refined petroleum products (mineral oil, naphtha solvents, petrolatum, waxes, etc.)2002..	X	105 204
	1997..	X	105 035
32510065	Alcohols2002..	X	179 740
	1997..	X	85 213
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons)2002..	X	757 623
	1997..	X	243 387
32518817	Silicates2002..	X	39 779
	1997..	X	96 909
32610037	Fabricated plastics products, including dispensing pumps and trigger and mist sprayers (excluding containers)2002..	X	442 096
	1997..	X	243 213
32610034	Plastics containers (including jars, tubes, tubs, and bottles)2002..	X	1 307 606
	1997..	X	N
32721301	Glass containers2002..	X	184 384
	1997..	X	193 103
32220013	Paper and paperboard containers (shipping containers, setup and folding cartons, etc.)2002..	X	622 049
	1997..	X	440 854
33240000	Metal containers2002..	X	337 467
	1997..	X	200 393
00970099	All other materials and components, parts, containers, and supplies2002..	X	2 109 261
	1997..	X	2 913 741
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	915 802
	1997..	X	1 278 798
325910	Printing ink manufacturing		
00900001	Total materials2002..	X	2 116 846
	1997..	X	2 380 722
32513001	Pigments, organic and inorganic mil lb . .2002..	S	523 602
	1997..	S	514 649
32518200	Carbon black mil lb . .2002..	S	119 765
	1997..	D	D
32521106	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. mil lb . .2002..	S	108 070
	1997..	N	N
32551005	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products (including all ink vehicles and varnishes) mil lb . .2002..	S	333 099
	1997..	N	N
32519105	Other wood chemicals (wood rosin, turpentine, etc.) mil lb . .2002..	S	9 991
	1997..	30.1	19 018
32410011	Hydrocarbon oils and solvents mil gal . .2002..	S	102 304
	1997..	58.9	137 024
32510029	Oxygenated solvents mil gal . .2002..	S	39 227
	1997..	D	D
33240000	Metal containers2002..	X	35 688
	1997..	X	22 077
00970099	All other materials and components, parts, containers, and supplies2002..	X	266 078
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325910	Printing ink manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk	X	579 022
	1997 ..	X	569 386
325920	Explosives manufacturing		
00900001	Total materials	X	351 200
	1997 ..	X	578 867
32531103	Nitrogenous fertilizers, ammonia, synthetic anhydrous (100 percent NH ₃)	D	D
	1,000 s tons ..	D	D
	1997 ..		
32531105	Nitrogenous fertilizers, ammonium nitrate (100 percent NH ₄ NO ₃)	558.7	63 434
	1,000 s tons ..	710.5	89 507
	1997 ..		
32531101	Nitrogenous fertilizers, nitric acid (100 percent HNO ₃)	D	D
	1,000 s tons ..	D	D
	1997 ..		
32518805	Sulfuric acid, excluding spent (100 percent H ₂ SO ₄)	D	D
	1,000 s tons ..	D	D
	1997 ..		
32592009	High explosives (including PETN, TNT, azides, and fulminates)	X	34 387
	2002 ..	X	62 368
	1997 ..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	15 671
	2002 ..	X	17 653
	1997 ..		
00970099	All other materials and components, parts, containers, and supplies	X	187 711
	2002 ..	X	153 021
	1997 ..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	41 431
	2002 ..	X	180 874
	1997 ..		
325991	Custom compounding of purchased resins		
00900001	Total materials	X	3 995 005
	2002 ..	X	4 467 350
	1997 ..		
325000A4	Industrial inorganic chemicals (excluding inorganic pigments, plastics resins, industrial and synthetic organic chemicals, synthetic dyes, pigments, and all other chemicals and allied products)	X	235 184
	2002 ..	X	N
	1997 ..		
32513106	Inorganic pigments	X	210 971
	2002 ..	X	N
	1997 ..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	1 278 348
	2002 ..	X	1 803 788
	1997 ..		
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	X	247 692
	2002 ..	X	294 203
	1997 ..		
32513200	Synthetic dyes, pigments, lakes, and toners	X	70 988
	2002 ..	X	124 148
	1997 ..		
32500043	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, industrial and synthetic organic chemicals, etc.)	X	242 571
	2002 ..	X	266 405
	1997 ..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	15 176
	2002 ..	X	40 499
	1997 ..		
32599100	Custom compounded plastics resins (purchased)	X	279 801
	2002 ..	X	210 524
	1997 ..		
32721209	Textile-type glass fiber	X	39 351
	2002 ..	X	37 131
	1997 ..		
00999803	Spent or post-consumer plastics (purchased)	X	150 272
	2002 ..	X	98 868
	1997 ..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	67 054
	2002 ..	X	49 472
	1997 ..		
00970099	All other materials and components, parts, containers, and supplies	X	435 040
	2002 ..	X	N
	1997 ..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	722 557
	2002 ..	X	664 052
	1997 ..		
325992	Photographic film, paper, plate, and chemical manufacturing		
00900001	Total materials	X	3 782 978
	2002 ..	X	4 694 334
	1997 ..		
32210007	Paper and paperboard products (excluding paperboard boxes, containers, corrugated paperboard, and photographic base papers)	X	29 150
	2002 ..	X	198 240
	1997 ..		
32212025	Photographic base papers	X	246 628
	2002 ..	X	720 801
	1997 ..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	133 532
	2002 ..	X	148 598
	1997 ..		
325000B1	All other miscellaneous inorganic chemicals (excluding silver nitrate and prepared photographic chemicals)	X	119 903
	2002 ..	X	D
	1997 ..		
32518839	Silver nitrate	X	D
	2002 ..	X	266 245
	1997 ..		
325100A7	Synthetic organic chemicals (excluding prepared photographic chemicals)	X	414 009
	2002 ..	X	D
	1997 ..		
32599215	Prepared photographic chemicals	X	161 128
	2002 ..	X	D
	1997 ..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
	2002 ..	X	71 759
	1997 ..		
32611303	Unsupported plastics film and sheet for photographic, mimeographic, X ray, etc.	X	D
	2002 ..	X	153 630
	1997 ..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
325992	Photographic film, paper, plate, and chemical manufacturing—Con.		
32610011	Fabricated plastics products (excluding gaskets)	X	70 192
	2002..	X	27 185
	1997..	X	71 099
32599203	Light sensitive films and papers	X	164 486
	2002..	X	D
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	X	D
	2002..	X	N
	1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	D
	2002..	X	N
	1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	D
	2002..	X	N
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings)	X	12 772
	2002..	X	N
	1997..	X	
33331405	Photographic and projection lenses and prisms	X	D
	2002..	X	N
	1997..	X	
332000AC	Metal stampings	X	D
	2002..	X	N
	1997..	X	
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	D
	2002..	X	N
	1997..	X	
33531211	Fractional horsepower electric motors (less than 1 hp)	X	D
	2002..	X	N
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	785 124
	2002..	X	884 636
	1997..	X	348 322
00971000	Materials, ingredients, containers, and supplies, nsk	X	83 784
	2002..	X	
	1997..	X	
325998	All other miscellaneous chemical product and preparation manufacturing		
00900001	Total materials	X	5 078 797
	2002..	X	N
	1997..	X	
21230009	Crude nonmetallic minerals (including limestone, clay, gypsum, talc, etc.)	X	80 446
	2002..	X	119 739
	1997..	X	
31100027	Fats, oils, greases, and tallow	X	125 087
	2002..	X	171 451
	1997..	X	
32518101	Alkalies and chlorine	X	239 777
	2002..	X	187 400
	1997..	X	
325000A7	Industrial inorganic chemicals	X	982 506
	2002..	X	620 403
	1997..	X	
32519101	Other wood chemicals (wood rosin, turpentine, etc.), including tall oil	X	D
	2002..	X	59 791
	1997..	X	
32410001	Refined petroleum products (naphtha solvents, petrolatum, waxes, etc.)	X	393 975
	2002..	X	298 981
	1997..	X	
32521103	Plastics and resin materials (synthetic)	X	258 401
	2002..	X	199 600
	1997..	X	
325100A5	All other miscellaneous synthetic organic chemicals	X	424 057
	2002..	X	N
	1997..	X	
00190030	Salt in brine	X	D
	2002..	X	N
	1997..	X	
33240000	Metal containers	X	92 903
	2002..	X	64 768
	1997..	X	
32610029	Plastics containers	X	122 717
	2002..	X	117 397
	1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	147 425
	2002..	X	132 049
	1997..	X	
33300015	Parts and attachments for machinery and equipment	X	40 202
	2002..	X	N
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	1 030 802
	2002..	X	N
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 100 691
	2002..	X	558 429
	1997..	X	
326111	Plastics bag manufacturing		
00900001	Total materials	X	3 286 551
	2002..	X	3 593 554
	1997..	X	
32212007	Paper 1,000 s tons	S	34 815
	2002..	S	34 362
	1997..	S	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	1 706 452
	2002..	X	2 064 711
	1997..	X	
32611201	Polyethylene unsupported plastic packaging film in roll form	X	239 925
	2002..	X	N
	1997..	X	
32611203	Polypropylene unsupported plastics packaging film in roll form	X	46 047
	2002..	X	N
	1997..	X	
00190062	Polyester unsupported plastics packaging film (coated and uncoated) in roll form	X	6 232
	2002..	X	N
	1997..	X	
32612205	Nylon unsupported plastics packaging film in roll form	X	D
	2002..	X	N
	1997..	X	
00190063	Other unsupported plastics packaging film in roll form (including cellophane)	X	17 038
	2002..	X	
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326111	Plastics bag manufacturing—Con.		
33131509	Aluminum foil, plain mil lb	1997.. X 2002.. D	N D
32552003	Glues and adhesives mil lb	1997.. S 2002.. S	15 193 D
32591002	Printing inks	1997.. X 2002.. X	79 578 N
32221001	Paperboard containers, boxes, and corrugated paperboard	1997.. X 2002.. X	318 164 244 564
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	539 934 783 007
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	277 466 446 572
326112	Plastics packaging film and sheet (including laminated) manufacturing		
00900001	Total materials	2002.. X 1997.. X	3 006 280 1 926 596
32212007	Paper 1,000 s tons	2002.. S 1997.. S	72 340 81 969
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	1 081 494 709 914
32611201	Polyethylene unsupported plastic packaging film in roll form	2002.. X 1997.. X	220 122 N
00190062	Polyester unsupported plastics packaging film (coated and uncoated) in roll form	2002.. X 1997.. X	105 107 N
32612205	Nylon unsupported plastics packaging film in roll form	2002.. X 1997.. X	22 817 N
00190063	Other unsupported plastics packaging film in roll form (including cellophane)	2002.. X 1997.. X	51 186 N
33131509	Aluminum foil, plain mil lb	2002.. P21.0 1997.. X	37 132 18 599
32552003	Glues and adhesives mil lb	2002.. S 1997.. S	57 926 46 440
32591002	Printing inks	2002.. X 1997.. X	168 182 N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	67 982 34 590
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	932 038 868 059
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	189 954 167 025
326113	Unlaminated plastics film and sheet (except packaging) manufacturing		
00900001	Total materials	2002.. X 1997.. X	6 680 748 6 379 473
325000A3	Industrial inorganic chemicals	2002.. X 1997.. X	242 214 133 428
32513106	Inorganic pigments	2002.. X 1997.. X	61 122 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	3 533 353 3 435 989
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002.. X 1997.. X	314 978 503 381
32513200	Synthetic dyes, pigments, lakes, and toners	2002.. X 1997.. X	37 213 77 930
32500043	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, industrial and synthetic organic chemicals, etc.)	2002.. X 1997.. X	358 398 126 063
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	328 139 401 720
32599100	Custom compounded plastics resins (purchased)	2002.. X 1997.. X	145 878 261 105
32721209	Textile-type glass fiber	2002.. X 1997.. X	D 408
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002.. X 1997.. X	108 969 116 608
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	170 303 148 856
33322000	Parts and attachments specially designed for plastics working machinery	2002.. X 1997.. X	D 11 072
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	713 826 382 887
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	629 850 780 026
326121	Unlaminated plastics profile shape manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 203 191 1 916 484
32121909	Hardboard	2002.. X 1997.. X	D N
325000A3	Industrial inorganic chemicals	2002.. X 1997.. X	D 83 594

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326121	Unlaminated plastics profile shape manufacturing— Con.		
32513106	Inorganic pigments	2002.. X 1997.. X	7 907 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	1 152 267 1 003 490
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002.. X 1997.. X	13 107 77 466
32513200	Synthetic dyes, pigments, lakes, and toners	2002.. X 1997.. X	9 006 13 679
32500043	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, industrial and synthetic organic chemicals, etc.)	2002.. X 1997.. X	13 416 56 535
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	199 098 125 355
32599100	Custom compounded plastics resins (purchased)	2002.. X 1997.. X	54 631 43 882
32721209	Textile-type glass fiber	2002.. X 1997.. X	D D
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002.. X 1997.. X	20 373 20 050
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	87 936 71 259
33322000	Parts and attachments specially designed for plastics working machinery	2002.. X 1997.. X	5 293 D
00999803	Spent or post-consumer plastics (purchased)	2002.. X 1997.. X	6 382 N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	358 578 210 277
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	192 754 192 873
326122	Plastics pipe and pipe fitting manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 937 219 2 847 203
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	2 192 170 2 012 352
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002.. X 1997.. X	38 646 25 504
32513200	Synthetic dyes, pigments, lakes, and toners	2002.. X 1997.. X	19 587 18 212
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	59 514 47 109
32599100	Custom compounded plastics resins (purchased)	2002.. X 1997.. X	83 081 119 582
32721209	Textile-type glass fiber	2002.. X 1997.. X	4 415 11 667
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	25 860 D
33322000	Parts and attachments specially designed for plastics working machinery	2002.. X 1997.. X	60 159 D
00999803	Spent or post-consumer plastics (purchased)	2002.. X 1997.. X	11 371 17 090
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	198 675 224 441
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	243 741 264 525
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing		
00900001	Total materials	2002.. X 1997.. X	973 612 1 453 608
325000A3	Industrial inorganic chemicals	2002.. X 1997.. X	72 880 10 514
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	89 619 288 300
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002.. X 1997.. X	21 260 18 108
32500043	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, industrial and synthetic organic chemicals, etc.)	2002.. X 1997.. X	68 123 23 492
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	217 799 193 099
32599100	Custom compounded plastics resins (purchased)	2002.. X 1997.. X	5 667 15 946
32721209	Textile-type glass fiber	2002.. X 1997.. X	36 705 107 360
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002.. X 1997.. X	201 746 334 522
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	37 307

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing—Con.		
	1997..	X	D
33322000	Parts and attachments specially designed for plastics working machinery	2002..	X 1 311
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	2002..	X 88 979
	1997..	X	248 398
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 132 216
	1997..	X	172 669
326140	Polystyrene foam product manufacturing		
00900001	Total materials	2002..	X 2 582 947
	1997..	X	2 225 104
325000A2	Industrial inorganic chemicals (excluding plastics resins (including styrene and all other plastics resins), industrial organic and synthetic organic chemicals, etc.)	2002..	X 107 712
	1997..	X	N
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002..	X 36 487
	1997..	X	73 433
32521113	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X 167 482
	1997..	X	N
32599100	Custom compounded plastics resins (purchased)	2002..	X 5 259
	1997..	X	16 866
32521151	Styrene resins	2002..	X 1 053 887
	1997..	X	N
325000A1	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, and industrial and synthetic organic chemicals)	2002..	X 51 067
	1997..	X	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	X 104 839
	1997..	X	52 256
32721209	Textile-type glass fiber	2002..	X D
	1997..	X	D
31321017	Broadwoven fabrics	2002..	X D
	1997..	X	D
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002..	X 47 445
	1997..	X	47 698
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X 168 577
	1997..	X	66 798
00970099	All other materials and components, parts, containers, and supplies	2002..	X 407 055
	1997..	X	1 034 214
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 424 822
	1997..	X	496 787
326150	Urethane and other foam product (except polystyrene) manufacturing		
00900001	Total materials	2002..	X 3 504 897
	1997..	X	N
325000A2	Industrial inorganic chemicals (excluding plastics resins (including styrene and all other plastics resins), industrial organic and synthetic organic chemicals, etc.)	2002..	X 397 210
	1997..	X	N
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	2002..	X 298 357
	1997..	X	645 739
32521113	All other plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X 266 052
	1997..	X	N
32599100	Custom compounded plastics resins (purchased)	2002..	X 51 279
	1997..	X	43 471
32521151	Styrene resins	2002..	X 21 567
	1997..	X	N
325000A1	All other chemicals and allied products (excluding industrial inorganic chemicals, inorganic pigments, plastics resins, and industrial and synthetic organic chemicals)	2002..	X 554 282
	1997..	X	251 184
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	X 182 923
	1997..	X	270 219
32721209	Textile-type glass fiber	2002..	X 25 978
	1997..	X	26 046
31321017	Broadwoven fabrics	2002..	X 27 742
	1997..	X	29 565
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002..	X 71 406
	1997..	X	23 144
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X 19 449
	1997..	X	30 991
00970099	All other materials and components, parts, containers, and supplies	2002..	X 927 317
	1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 661 335
	1997..	X	820 279

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326160	Plastics bottle manufacturing		
00900001	Total materials .....2002..	X	3 739 309
	.....1997..	X	2 961 703
32121909	Hardboard .....2002..	X	980
	.....1997..	X	2 633
325000A4	Industrial inorganic chemicals (excluding inorganic pigments, plastics resins, industrial and synthetic organic chemicals, synthetic dyes, pigments, and all other chemicals and allied products) .....2002..	X	D
	.....1997..	X	N
32513106	Inorganic pigments .....2002..	X	3 917
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	2 479 231
	.....1997..	X	1 791 901
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners) .....2002..	X	D
	.....1997..	X	D
32513200	Synthetic dyes, pigments, lakes, and toners .....2002..	X	45 114
	.....1997..	X	15 827
32500042	All other chemicals and allied products (excluding industrial inorganic chemicals, plastics resins, and industrial organic and synthetic organic chemicals) .....2002..	X	11 035
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	301 456
	.....1997..	X	373 502
32599100	Custom compounded plastics resins (purchased) .....2002..	X	62 686
	.....1997..	X	18 789
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard) .....2002..	X	31 686
	.....1997..	X	26 299
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	201 093
	.....1997..	X	211 451
33322000	Parts and attachments specially designed for plastics working machinery .....2002..	X	80 224
	.....1997..	X	10 850
00999803	Spent or post-consumer plastics (purchased) .....2002..	X	35 093
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	202 175
	.....1997..	X	223 369
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	279 161
	.....1997..	X	241 810
326191	Plastics plumbing fixture manufacturing		
00900001	Total materials .....2002..	X	1 188 768
	.....1997..	X	835 449
32121909	Hardboard .....2002..	X	23 507
	.....1997..	X	15 212
325000A6	Industrial inorganic chemicals (excluding plastics resins, industrial organic and synthetic organic chemicals, and all other chemicals and allied products) .....2002..	X	16 967
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	222 948
	.....1997..	X	140 090
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners) .....2002..	X	12 270
	.....1997..	X	15 693
32500042	All other chemicals and allied products (excluding industrial inorganic chemicals, plastics resins, and industrial organic and synthetic organic chemicals) .....2002..	X	101 555
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	133 868
	.....1997..	X	108 529
32599100	Custom compounded plastics resins (purchased) .....2002..	X	42 555
	.....1997..	X	7 263
32721209	Textile-type glass fiber .....2002..	X	42 887
	.....1997..	X	34 601
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	49 047
	.....1997..	X	25 032
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	357 909
	.....1997..	X	210 644
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	185 255
	.....1997..	X	278 385
326192	Resilient floor covering manufacturing		
00900001	Total materials .....2002..	X	570 568
	.....1997..	X	683 556
32510059	Plasticizers .....2002..	X	57 976
	.....1997..	X	71 164
32513000	Pigments, organic and inorganic .....2002..	X	34 801
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	164 077
	.....1997..	X	244 560
32500041	Other chemicals and allied products .....2002..	X	65 563
	.....1997..	X	D
32212037	Floor covering felts .....2002..	X	83 958
	.....1997..	X	66 780
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	18 234
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	127 496
	.....1997..	X	144 984

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326192	Resilient floor covering manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk	X	18 463
	.....2002..	X	93 446
	.....1997..		
326199	All other plastics product manufacturing		
00900001	Total materials	X	28 650 184
	.....2002..	X	26 338 643
	.....1997..		
32121909	Hardboard	X	89 240
	.....2002..	X	63 635
	.....1997..		
325000A4	Industrial inorganic chemicals (excluding inorganic pigments, plastics resins, industrial and synthetic organic chemicals, synthetic dyes, pigments, and all other chemicals and allied products)	X	224 002
	.....2002..	X	N
	.....1997..		
32513106	Inorganic pigments	X	107 984
	.....2002..	X	N
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	8 856 166
	.....2002..	X	9 402 922
	.....1997..		
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic dyes, pigments, and toners)	X	193 970
	.....2002..	X	332 522
	.....1997..		
32513200	Synthetic dyes, pigments, lakes, and toners	X	185 841
	.....2002..	X	246 293
	.....1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	2 194 455
	.....2002..	X	2 473 860
	.....1997..		
32599100	Custom compounded plastics resins (purchased)	X	430 514
	.....2002..	X	469 302
	.....1997..		
32721209	Textile-type glass fiber	X	446 288
	.....2002..	X	443 864
	.....1997..		
31321017	Broadwoven fabrics	X	158 423
	.....2002..	X	116 155
	.....1997..		
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	X	206 201
	.....2002..	X	204 477
	.....1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	876 127
	.....2002..	X	764 200
	.....1997..		
33322000	Parts and attachments specially designed for plastics working machinery	X	363 649
	.....2002..	X	295 697
	.....1997..		
00999803	Spent or post-consumer plastics (purchased)	X	148 096
	.....2002..	X	142 698
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	8 175 634
	.....2002..	X	5 736 474
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	5 993 594
	.....2002..	X	5 646 544
	.....1997..		
326211	Tire manufacturing (except retreading)		
00900001	Total materials	X	5 728 423
	.....2002..	X	6 647 042
	.....1997..		
11321005	Natural latex rubber (dry solids content)	X	224 070
	.....2002..	X	552 069
	.....1997..		
11321003	Natural dry rubber	X	470 969
	.....2002..	X	615 836
	.....1997..		
32513107	Inorganic pigments	X	226 396
	.....2002..	P418.2	118 222
	.....1997..	S	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	51 645
	.....2002..	X	40 544
	.....1997..		
32521201	Synthetic rubber (including vulcanizable elastomers)	X	1 270 160
	.....2002..	X	1 480 386
	.....1997..		
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.)	X	333 793
	.....2002..	X	418 640
	.....1997..		
32510059	Plasticizers	X	D
	.....2002..	X	46 433
	.....1997..		
32518200	Carbon black	X	664 035
	.....2002..	2 220.0	556 617
	.....1997..	P2 110.8	
32500063	All other chemicals and allied products (excluding inorganic pigments, plastics resins, synthetic rubber, rubber processing chemicals, plasticizers, and carbon black)	X	192 130
	.....2002..	X	166 319
	.....1997..		
32629901	Reclaimed rubber (excluding mud and crumb and ground scrap)	D	D
	.....2002..	S	17 480
	.....1997..		
32629905	Rubber compounds and mixtures purchased (dry rubber solids content)	443.0	239 401
	.....2002..	535.8	349 603
	.....1997..		
32600019	All other fabricated rubber products	X	208 175
	.....2002..	X	91 996
	.....1997..		
31499201	Nylon tire cord	X	180 447
	.....2002..	79.6	221 137
	.....1997..	85.6	
31499203	Polyester tire cord	X	278 295
	.....2002..	146.9	392 228
	.....1997..	189.0	
31499205	Metallic tire cord	X	435 950
	.....2002..	P524.3	424 381
	.....1997..	*389.8	
31499207	All tire fabrics (including rayon, fiberglass, chafar, and other tire cord)	X	123 765
	.....2002..	X	193 309
	.....1997..		
33200081	Fabricated metal products (excluding forgings)	X	108 679
	.....2002..	X	69 841
	.....1997..		
33120011	Steel wire	X	297 960
	.....2002..	P399.7	399 657
	.....1997..	354.4	
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	17 954
	.....2002..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326211	Tire manufacturing (except retreading)—Con.		
00970099	All other materials and components, parts, containers, and supplies	1997.. X	15 499
		2002.. X	249 590
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X	390 276
		2002.. X	106 700
		1997.. X	86 569
326212	Tire retreading		
00900001	Total materials	2002.. X	474 381
		1997.. X	416 774
32621107	Tread rubber (camelback)	2002.. X	204 715
		1997.. X	180 550
32621109	Tire repair materials (rubber)	2002.. X	30 936
		1997.. X	43 338
00999805	Pneumatic casings from used tires	2002.. X	32 185
		1997.. X	71 380
00970099	All other materials and components, parts, containers, and supplies	2002.. X	62 592
		1997.. X	25 941
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	143 953
		1997.. X	95 565
326220	Rubber and plastics hoses and belting manufacturing		
00900001	Total materials	2002.. X	1 768 728
		1997.. X	1 714 484
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	249 462
		1997.. X	195 340
32521201	Synthetic rubber (including vulcanizable elastomers)	2002.. X	150 677
		1997.. X	210 728
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.)	2002.. X	54 269
		1997.. X	57 240
32510059	Plasticizers	2002.. X	50 253
		1997.. X	23 890
32500037	All other chemicals and allied products	2002.. X	44 391
		1997.. X	39 977
32518201	Carbon black	2002.. X	38 053
		1997.. X	N
32629904	Rubber compounds and mixtures, purchased (dry rubber solids content)	2002.. X	292 292
		1997.. X	N
33251019	Metal hose fittings and couplings	2002.. X	115 568
		1997.. X	124 816
33120010	Steel wire	2002.. X	52 591
		1997.. X	N
31320003	Textile fabrics	2002.. X	243 458
		1997.. X	263 850
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X	40 835
		1997.. X	38 431
00970099	All other materials and components, parts, containers, and supplies	2002.. X	288 276
		1997.. X	N
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	148 603
		1997.. X	148 068
326291	Rubber product manufacturing for mechanical use		
00900001	Total materials	2002.. X	2 760 838
		1997.. X	2 531 577
11321005	Natural latex rubber (dry solids content)	2002.. X	14 138
		1997.. X	35 679
11321003	Natural dry rubber	2002.. X	51 197
		1997.. X	66 026
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	48 390
		1997.. X	27 731
32521139	Vinyl and vinyl copolymer resins (all forms)	2002.. X	15 618
		1997.. X	16 625
32521111	Polyurethane elastomers and plastics (excluding thermoplastics)	2002.. X	25 579
		1997.. X	31 779
32521207	Thermoplastics elastomers, polyurethane	2002.. X	D
		1997.. X	4 705
32521203	Styrene-butadiene rubber (SBR)	2002.. X	48 055
		1997.. X	122 195
32521209	Polychloroprene rubber	2002.. X	20 589
		1997.. X	36 822
32521211	Nitrile rubber, butadiene-acrylonitrile	2002.. X	13 998
		1997.. X	22 696
32521213	Ethylene-propylene rubber	2002.. X	57 099
		1997.. X	63 603
32520007	Other plastics materials (including synthetic resins, synthetic rubber, cellulosic and other manmade fibers), excluding glass	2002.. X	52 832
		1997.. X	98 946
32629900	Reclaimed rubber (excluding mud and crumb and ground scrap)	2002.. X	2 216
		1997.. X	N
32629904	Rubber compounds and mixtures, purchased (dry rubber solids content)	2002.. X	558 288
		1997.. X	N
32600019	All other fabricated rubber products	2002.. X	42 781
		1997.. X	19 688

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326291	Rubber product manufacturing for mechanical use— Con.		
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.) .....2002..	X	73 529
	.....1997..	X	75 019
32510059	Plasticizers .....2002..	X	22 337
	.....1997..	X	13 317
32510085	All other industrial organic chemicals .....2002..	X	15 739
	.....1997..	X	26 616
32518201	Carbon black .....2002..	X	51 042
	.....1997..	X	N
32513106	Inorganic pigments .....2002..	X	2 533
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	36 736
	.....1997..	X	34 659
33200081	Fabricated metal products (excluding forgings) .....2002..	X	618 205
	.....1997..	X	328 293
33120010	Steel wire .....2002..	X	93 301
	.....1997..	X	N
31320013	Cotton fabrics .....2002..	X	D
	.....1997..	X	6 113
31320015	Manmade fiber fabrics (including glass) .....2002..	X	40 267
	.....1997..	X	24 943
33120003	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, and bare wire) .....2002..	X	87 775
	.....1997..	X	111 072
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	32 342
	.....1997..	X	36 960
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	432 639
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	294 255
	.....1997..	X	378 216
326299	All other rubber product manufacturing		
00900001	Total materials .....2002..	X	2 808 064
	.....1997..	X	3 557 580
11321005	Natural latex rubber (dry solids content) .....2002..	X	133 478
	.....1997..	X	156 449
11321003	Natural dry rubber .....2002..	X	127 327
	.....1997..	X	170 218
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	38 214
	.....1997..	X	58 487
32521139	Vinyl and vinyl copolymer resins (all forms) .....2002..	X	36 263
	.....1997..	X	21 552
32521111	Polyurethane elastomers and plastics (excluding thermoplastics) .....2002..	X	60 522
	.....1997..	X	111 264
32521207	Thermoplastics elastomers, polyurethane .....2002..	X	D
	.....1997..	X	11 091
32521203	Styrene-butadiene rubber (SBR) .....2002..	X	141 944
	.....1997..	X	213 726
32521209	Polychloroprene rubber .....2002..	X	26 429
	.....1997..	X	21 841
32521211	Nitrile rubber, butadiene-acrylonitrile .....2002..	X	45 685
	.....1997..	X	48 850
32521213	Ethylene-propylene rubber .....2002..	X	158 959
	.....1997..	X	137 350
32520007	Other plastics materials (including synthetic resins, synthetic rubber, cellulosic and other manmade fibers), excluding glass .....2002..	X	106 606
	.....1997..	X	172 116
32629900	Reclaimed rubber (excluding mud and crumb and ground scrap) .....2002..	X	6 385
	.....1997..	X	N
32629904	Rubber compounds and mixtures, purchased (dry rubber solids content) .....2002..	X	161 847
	.....1997..	X	N
32600019	All other fabricated rubber products .....2002..	X	53 812
	.....1997..	X	154 137
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.) .....2002..	X	197 792
	.....1997..	X	317 888
32510059	Plasticizers .....2002..	X	56 607
	.....1997..	X	52 551
32510085	All other industrial organic chemicals .....2002..	X	22 070
	.....1997..	X	69 182
32518201	Carbon black .....2002..	X	123 400
	.....1997..	X	N
32513106	Inorganic pigments .....2002..	X	28 290
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	28 722
	.....1997..	X	34 464
33200081	Fabricated metal products (excluding forgings) .....2002..	X	18 959
	.....1997..	X	28 521
33120010	Steel wire .....2002..	X	D
	.....1997..	X	N
31320013	Cotton fabrics .....2002..	X	7 356
	.....1997..	X	29 556
31320015	Manmade fiber fabrics (including glass) .....2002..	X	90 479
	.....1997..	X	136 928

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
326299	All other rubber product manufacturing— Con.		
3312003	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, and bare wire) .....2002..	X	18 318
	.....1997..	X	20 899
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	68 499
	.....1997..	X	67 863
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	602 875
	.....1997..	X	766 388
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	434 030
	.....1997..	X	756 259
327111	Vitreous china and earthenware plumbing fixture and accessories mfg		
00900001	Total materials .....2002..	X	235 835
	.....1997..	X	220 692
21232011	Clay, ceramic, and refractory minerals .....2002..	X	80 711
	.....1997..	X	85 146
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	40 427
	.....1997..	X	36 531
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	101 280
	.....1997..	X	86 183
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	13 417
	.....1997..	X	12 832
327112	Vitreous china, fine earthenware, and other pottery product manufacturing		
00900001	Total materials .....2002..	X	256 825
	.....1997..	X	391 116
21232011	Clay, ceramic, and refractory minerals .....2002..	X	86 467
	.....1997..	X	150 399
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	39 540
	.....1997..	X	38 771
332000AC	Metal stampings .....2002..	X	1 193
	.....1997..	X	2 431
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	94 963
	.....1997..	X	158 745
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	34 662
	.....1997..	X	40 770
327113	Porcelain electrical supply manufacturing		
00900001	Total materials .....2002..	X	339 332
	.....1997..	X	288 191
21232011	Clay, ceramic, and refractory minerals .....2002..	X	136 228
	.....1997..	X	137 741
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	21 288
	.....1997..	X	16 745
332000AC	Metal stampings .....2002..	X	29 650
	.....1997..	X	31 045
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	134 726
	.....1997..	X	96 590
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	17 440
	.....1997..	X	6 070
327121	Brick and structural clay tile manufacturing		
00900001	Total materials .....2002..	X	219 478
	.....1997..	X	213 185
21232011	Clay, ceramic, and refractory minerals .....2002..	X	90 221
	.....1997..	X	89 293
32500003	Industrial chemicals .....2002..	X	15 671
	.....1997..	X	24 136
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	112 147
	.....1997..	X	80 632
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 439
	.....1997..	X	19 124
327122	Ceramic wall and floor tile manufacturing		
00900001	Total materials .....2002..	X	198 262
	.....1997..	X	214 168
21232011	Clay, ceramic, and refractory minerals .....2002..	X	44 276
	.....1997..	X	106 860
32500003	Industrial chemicals .....2002..	X	21 946
	.....1997..	X	20 422
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	86 308
	.....1997..	X	47 890
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	45 732
	.....1997..	X	38 996
327123	Other structural clay product manufacturing		
00900001	Total materials .....2002..	X	35 891
	.....1997..	X	22 975
21232011	Clay, ceramic, and refractory minerals .....2002..	X	15 144
	.....1997..	X	5 835
32500003	Industrial chemicals .....2002..	X	2 674
	.....1997..	X	1 360
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	17 809
	.....1997..	X	8 862
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	264
	.....1997..	X	6 918

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327124	Clay refractory manufacturing		
00900001	Total materials .....2002..	X	366 493
	.....1997..	X	481 662
21232011	Clay, ceramic, and refractory minerals .....2002..	X	256 479
	.....1997..	X	274 465
32799205	Dead-burned magnesia and magnesite .....2002..	X	D
	.....1997..	X	6 875
32710000	Refractories, clay and nonclay .....2002..	X	40 747
	.....1997..	X	90 098
32700005	Other stone, clay, glass, and concrete products .....2002..	X	D
	.....1997..	X	4 418
32500003	Industrial chemicals .....2002..	X	D
	.....1997..	X	6 241
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	33 490
	.....1997..	X	60 828
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	28 790
	.....1997..	X	38 737
327125	Nonclay refractory manufacturing		
00900001	Total materials .....2002..	X	353 446
	.....1997..	X	527 214
21232011	Clay, ceramic, and refractory minerals .....2002..	X	98 731
	.....1997..	X	233 653
32799205	Dead-burned magnesia and magnesite .....2002..	X	D
	.....1997..	X	45 104
32710000	Refractories, clay and nonclay .....2002..	X	130 719
	.....1997..	X	D
32700005	Other stone, clay, glass, and concrete products .....2002..	X	D
	.....1997..	X	D
32500003	Industrial chemicals .....2002..	X	422
	.....1997..	X	21 626
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	26 961
	.....1997..	X	93 882
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	38 359
	.....1997..	X	59 415
327211	Flat glass manufacturing		
00900001	Total materials .....2002..	X	651 346
	.....1997..	X	606 034
21232200	Glass sand, all types .....2002..	X	154 882
	.....1997..	X	78 506
32518104	Sodium carbonate (soda ash) (58 percent Na2O) .....2002..	X	118 603
	.....1997..	X	N
325000A9	Industrial inorganic chemicals (excluding sodium carbonate) .....2002..	X	38 174
	.....1997..	X	42 386
32500055	Other chemicals and allied products .....2002..	X	33 210
	.....1997..	X	12 985
32721103	Glass (float, sheet and plate) .....2002..	X	27 745
	.....1997..	X	23 284
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	11 409
	.....1997..	X	15 471
32192001	Wood boxes, pallets, skids, and containers .....2002..	X	46 398
	.....1997..	X	67 629
00190028	Cullet (glass scrap) .....2002..	X	43 169
	.....1997..	X	36 755
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	147 986
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	29 770
	.....1997..	X	26 114
327212	Other pressed and blown glass and glassware manufacturing		
00900001	Total materials .....2002..	X	1 123 951
	.....1997..	X	1 202 459
21232200	Glass sand, all types .....2002..	X	213 334
	.....1997..	X	215 909
32518104	Sodium carbonate (soda ash) (58 percent Na2O) .....2002..	X	36 197
	.....1997..	X	N
325000A9	Industrial inorganic chemicals (excluding sodium carbonate) .....2002..	X	107 134
	.....1997..	X	165 951
32500055	Other chemicals and allied products .....2002..	X	120 963
	.....1997..	X	121 277
32721103	Glass (float, sheet and plate) .....2002..	X	20 282
	.....1997..	X	D
32721201	Other glass products, including glass tumblers, stemware, and tableware (excluding scrap) .....2002..	X	26 094
	.....1997..	X	33 413
32799215	Minerals and earths, ground or otherwise treated .....2002..	X	71 322
	.....1997..	X	47 495
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	113 397
	.....1997..	X	122 355
32192001	Wood boxes, pallets, skids, and containers .....2002..	X	18 843
	.....1997..	X	32 682
32600015	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets) .....2002..	X	D
	.....1997..	X	N
32611301	Plastics film and sheet, unsupported .....2002..	X	D
	.....1997..	X	D
00190028	Cullet (glass scrap) .....2002..	X	36 432
	.....1997..	X	26 705
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	256 936
	.....1997..	X	371 178

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327212	Other pressed and blown glass and glassware manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	83 204
	1997..	X	60 095
327213	Glass container manufacturing		
00900001	Total materials2002..	X	1 184 094
	1997..	X	1 217 835
32518105	Sodium carbonate (soda ash) (58 percent Na ₂ O) 1,000 s tons .2002..	P1 590.2	179 319
	1997..	1 663.4	186 436
21232200	Glass sand, all types2002..	X	123 298
	1997..	X	117 320
32741003	Lime 1,000 s tons .2002..	P1 294.0	33 875
	1997..	N	N
32799219	Nonmetallic minerals and earths, ground or otherwise treated 1,000 s tons .2002..	Q313.5	25 033
	1997..	518.5	26 663
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	382 119
	1997..	X	362 561
00190028	Cullet (glass scrap)2002..	X	114 719
	1997..	X	112 149
32611301	Plastics film and sheet, unsupported2002..	X	D
	1997..	X	12 471
33350003	Industrial dies, molds, jigs, and fixtures2002..	X	106 616
	1997..	X	55 841
33291907	Metal fittings, flanges, and unions for piping systems (excluding forgings)2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	177 933
	1997..	X	296 995
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	3 886
	1997..	X	47 399
327215	Glass product manufacturing made of purchased glass		
00900001	Total materials2002..	X	4 436 499
	1997..	X	3 973 189
21232200	Glass sand, all types2002..	X	28 166
	1997..	X	4 774
32518104	Sodium carbonate (soda ash) (58 percent Na ₂ O)2002..	X	444
	1997..	X	N
325000A9	Industrial inorganic chemicals (excluding sodium carbonate)2002..	X	32 102
	1997..	X	27 633
32500055	Other chemicals and allied products2002..	X	75 627
	1997..	X	66 150
32721103	Glass (float, sheet and plate)2002..	X	1 576 897
	1997..	X	1 546 730
32721201	Other glass products, including glass tumblers, stemware, and tableware (excluding scrap)2002..	X	754 304
	1997..	X	603 335
32799215	Minerals and earths, ground or otherwise treated2002..	X	5 515
	1997..	X	5 681
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	64 960
	1997..	X	63 017
32192001	Wood boxes, pallets, skids, and containers2002..	X	23 307
	1997..	X	32 500
32600015	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)2002..	X	25 339
	1997..	X	N
32611301	Plastics film and sheet, unsupported2002..	X	92 031
	1997..	X	170 229
00190028	Cullet (glass scrap)2002..	X	8 332
	1997..	X	2 827
00970099	All other materials and components, parts, containers, and supplies2002..	X	1 053 155
	1997..	X	931 180
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	696 320
	1997..	X	519 133
327310	Cement manufacturing		
00900001	Total materials2002..	X	1 526 974
	1997..	X	1 209 373
32213003	Paperboard liners2002..	X	D
	1997..	X	D
32222403	Paper shipping sacks and multiwall bags2002..	X	43 045
	1997..	X	D
32200007	Other paper and paperboard products2002..	X	D
	1997..	X	7 795
32710000	Refractories, clay and nonclay2002..	X	79 375
	1997..	X	61 433
32731007	Cement clinker2002..	X	204 633
	1997..	X	218 967
32799215	Minerals and earths, ground or otherwise treated2002..	X	176 075
	1997..	X	152 661
32700007	Other stone, clay, glass, and concrete products2002..	X	106 219
	1997..	X	34 058
21231003	Crushed and broken stone (including cement rock, limestone, etc.)2002..	X	123 816
	1997..	X	134 062
32791003	Abrasives and abrasive products2002..	X	7 921
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	519 207
	1997..	X	409 611
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	258 537
	1997..	X	143 931

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327320	Ready-mix concrete manufacturing		
00900001	Total materials .....2002..	X	10 539 421
	.....1997..	X	8 576 817
21232002	Sand and gravel .....2002..	X	2 164 157
	.....1997..	X	N
21231200	Mining and quarrying of crushed and broken limestone (including dolomite, cement rock, marl, etc.) .....2002..	X	531 773
	.....1997..	X	459 692
21231300	Mining and quarrying of crushed and broken granite (including gneiss, syenite, and diorite) .....2002..	X	87 747
	.....1997..	X	44 441
21231900	Mining and quarrying of other crushed and broken stone (riprap, slate, marble, traprock, sandstone, quartz, etc.) .....2002..	X	146 335
	.....1997..	X	156 857
21230005	Mining and quarrying of other nonmetallic minerals (excluding fuels) .....2002..	X	28 935
	.....1997..	X	23 570
32510003	Ready-mixed concrete chemical processing preparations and materials .....2002..	X	506 076
	.....1997..	X	344 474
32731005	Portland and blended cements .....2002..	X	3 370 888
	.....1997..	X	2 601 914
32700015	Other stone, clay, and concrete products .....2002..	X	158 332
	.....1997..	X	128 150
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	389 895
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	3 155 283
	.....1997..	X	2 948 576
327331	Concrete block and brick manufacturing		
00900001	Total materials .....2002..	X	1 302 753
	.....1997..	X	950 083
32731005	Portland and blended cements .....2002..	X	315 097
	.....1997..	X	N
32732000	Ready-mixed concrete .....2002..	X	13 071
	.....1997..	X	26 116
32700012	Other stone, clay, glass, and concrete products (excluding portland and blended cements and ready-mixed concrete) .....2002..	X	67 142
	.....1997..	X	N
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	97 146
	.....1997..	X	57 410
21232002	Sand and gravel .....2002..	X	173 346
	.....1997..	X	N
21230007	Other mining and quarrying of nonmetallic minerals (excluding fuels) .....2002..	X	38 019
	.....1997..	X	25 219
33120053	Steel wire strand, bars, and rods, high strength, stress relieved .....2002..	X	1 426
	.....1997..	X	2 342
33120093	Welded steel wire concrete reinforcing mesh .....2002..	X	1 559
	.....1997..	X	1 565
33120009	Steel concrete reinforcing bars .....2002..	X	1 329
	.....1997..	X	763
33120055	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 244
	.....1997..	X	2 722
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	5 094
	.....1997..	X	1 262
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	185 412
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	397 868
	.....1997..	X	299 240
327332	Concrete pipe manufacturing		
00900001	Total materials .....2002..	X	716 817
	.....1997..	X	658 058
32731005	Portland and blended cements .....2002..	X	199 675
	.....1997..	X	N
32732000	Ready-mixed concrete .....2002..	X	12 471
	.....1997..	X	10 978
32700012	Other stone, clay, glass, and concrete products (excluding portland and blended cements and ready-mixed concrete) .....2002..	X	4 586
	.....1997..	X	N
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	17 280
	.....1997..	X	14 791
21232002	Sand and gravel .....2002..	X	82 395
	.....1997..	X	N
21230007	Other mining and quarrying of nonmetallic minerals (excluding fuels) .....2002..	X	11 175
	.....1997..	X	5 474
33120053	Steel wire strand, bars, and rods, high strength, stress relieved .....2002..	X	32 209
	.....1997..	X	40 507
33120093	Welded steel wire concrete reinforcing mesh .....2002..	X	70 370
	.....1997..	X	86 722
33120009	Steel concrete reinforcing bars2002..	X	35 971
1997..	X	26 935

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327332	Concrete pipe manufacturing—Con.		
33120055	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	29 648
	.....1997..	X	21 230
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 352
	.....1997..	X	19 624
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	99 442
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	119 243
	.....1997..	X	89 380
327390	Other concrete product manufacturing		
00900001	Total materials .....2002..	X	2 713 660
	.....1997..	X	2 041 294
32731005	Portland and blended cements .....2002..	X	329 706
	.....1997..	X	N
32732000	Ready-mixed concrete .....2002..	X	132 173
	.....1997..	X	80 022
32700012	Other stone, clay, glass, and concrete products (excluding portland and blended cements and ready-mixed concrete) .....2002..	X	53 028
	.....1997..	X	N
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	53 229
	.....1997..	X	26 993
21232002	Sand and gravel .....2002..	X	149 997
	.....1997..	X	N
21230007	Other mining and quarrying of nonmetallic minerals (excluding fuels) .....2002..	X	28 334
	.....1997..	X	21 906
33120053	Steel wire strand, bars, and rods, high strength, stress relieved .....2002..	X	120 595
	.....1997..	X	120 370
33120093	Welded steel wire concrete reinforcing mesh .....2002..	X	50 211
	.....1997..	X	43 482
33120009	Steel concrete reinforcing bars .....2002..	X	94 286
	.....1997..	X	83 595
33120055	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	52 162
	.....1997..	X	47 745
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	25 282
	.....1997..	X	16 975
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	651 381
	.....1997..	X	885 886
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	973 276
	.....1997..	X	714 320
327410	Lime manufacturing		
00900001	Total materials .....2002..	X	197 617
	.....1997..	X	259 983
32213003	Paperboard liners .....2002..	X	D
	.....1997..	X	D
32222403	Paper shipping sacks and multiwall bags .....2002..	X	20 206
	.....1997..	X	20 956
32200007	Other paper and paperboard products .....2002..	X	D
	.....1997..	X	D
32710000	Refractories, clay and nonclay .....2002..	X	D
	.....1997..	X	16 631
32731007	Cement clinker .....2002..	X	D
	.....1997..	X	D
32799215	Minerals and earths, ground or otherwise treated .....2002..	X	D
	.....1997..	X	2 763
32700007	Other stone, clay, glass, and concrete products .....2002..	X	D
	.....1997..	X	1 315
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	89 527
	.....1997..	X	145 428
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	40 122
	.....1997..	X	55 171
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	17 844
	.....1997..	X	7 745
327420	Gypsum product manufacturing		
00900001	Total materials .....2002..	X	1 569 618
	.....1997..	X	1 758 295
32213003	Paperboard liners .....2002..	X	294 780
	.....1997..	X	377 002
32222403	Paper shipping sacks and multiwall bags .....2002..	X	14 417
	.....1997..	X	D
32200007	Other paper and paperboard products .....2002..	X	197 066
	.....1997..	X	233 438
32710000	Refractories, clay and nonclay .....2002..	X	D
	.....1997..	X	D
32731007	Cement clinker .....2002..	X	D
	.....1997..	X	D
32799215	Minerals and earths, ground or otherwise treated .....2002..	X	140 399
	.....1997..	X	200 242
32700007	Other stone, clay, glass, and concrete products .....2002..	X	11 948
	.....1997..	X	39 728
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	164 088
	.....1997..	X	266 924
32791003	Abrasives and abrasive products .....2002..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327420	Gypsum product manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	1997.. X	N
		2002.. X	482 297
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X	501 353
		2002.. X	260 769
		1997.. X	37 181
327910	Abrasive product manufacturing		
00900001	Total materials	2002.. X	962 116
		1997.. X	1 473 689
32791003	Abrasives and abrasive products	2002.. X	364 586
		1997.. X	N
32518811	Synthetic aluminum oxide	2002.. X	18 660
		1997.. X	N
00190039	Diamonds	2002.. X	41 535
		1997.. X	94 322
31320005	Cotton and manmade fiber fabrics, broadwoven and narrow woven	2002.. X	79 911
		1997.. X	148 490
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard)	2002.. X	50 074
		1997.. X	134 268
325000A8	Industrial inorganic chemicals (excluding synthetic aluminum oxide, glues and adhesives, and other chemicals and allied products)	2002.. X	24 266
		1997.. X	N
32552002	Glues and adhesives	2002.. X	29 726
		1997.. X	N
32500035	Other chemicals and allied products	2002.. X	37 509
		1997.. X	43 152
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers)	2002.. X	17 130
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	153 355
		1997.. X	907 168
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	145 364
		1997.. X	146 289
327991	Cut stone and stone product manufacturing		
00900001	Total materials	2002.. X	598 142
		1997.. X	312 258
21231101	Rough blocks, used to produce dressed stone	2002.. X	167 712
		1997.. X	N
32791003	Abrasives and abrasive products	2002.. X	16 484
		1997.. X	8 958
33221200	Stoncutting tools and accessories (including blades)	2002.. X	33 449
		1997.. X	19 353
00970099	All other materials and components, parts, containers, and supplies	2002.. X	113 497
		1997.. X	184 865
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	267 000
		1997.. X	99 082
327992	Ground or treated mineral and earth manufacturing		
00900001	Total materials	2002.. X	493 330
		1997.. X	752 113
00970099	All other materials and components, parts, containers, and supplies	2002.. X	36 691
		1997.. X	752 113
327993	Mineral wool manufacturing		
00900001	Total materials	2002.. X	1 456 381
		1997.. X	1 367 346
21232401	Kaolin and ball clay	2002.. X	7 582
		1997.. X	N
21239301	Mining and quarrying of chemical and fertilizer minerals (including barite, borate, potash, fluorspar, and rocksalt)	2002.. X	94 242
		1997.. X	69 679
21232002	Sand and gravel	2002.. X	31 160
		1997.. X	N
21230001	Mining and quarrying of other nonmetallic minerals (excluding fuels)	2002.. X	129 384
		1997.. X	174 061
31320005	Cotton and manmade fiber fabrics, broadwoven and narrow woven	2002.. X	10 972
		1997.. X	20 995
32222403	Paper shipping sacks and multiwall bags	2002.. X	17 365
		1997.. X	49 636
32220011	Other converted paper and paperboard products	2002.. X	31 338
		1997.. X	45 091
32200007	Other paper and paperboard products	2002.. X	37 617
		1997.. X	49 265
325000C1	Industrial inorganic chemicals (excluding glue and adhesives, and other chemicals and allied products)	2002.. X	D
		1997.. X	N
32500047	Other chemical and allied products	2002.. X	74 177
		1997.. X	24 966
32552002	Glues and adhesives	2002.. X	22 094
		1997.. X	N
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	55 748
		1997.. X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	57 707
		1997.. X	47 464

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
327993	Mineral wool manufacturing—Con.		
32721204	Glass fiber (textile-type, bonded mat type, etc.) 2002..	X	156 313
	1997..	X	N
32731005	Portland and blended cements 2002..	X	D
	1997..	X	N
33111103	Crude blast furnace slag 2002..	X	20 202
	1997..	X	22 366
33131511	Aluminum sheet, plate, foil, and welded tubings 2002..	X	7 230
	1997..	X	63 062
32222501	Converted aluminum foil 2002..	X	19 314
	1997..	X	9 561
00970099	All other materials and components, parts, containers, and supplies 2002..	X	399 051
	1997..	X	665 719
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	252 672
	1997..	X	125 481
327999	All other miscellaneous nonmetallic mineral product manufacturing		
00900001	Total materials 2002..	X	759 873
	1997..	X	727 475
21230001	Mining and quarrying of other nonmetallic minerals (excluding fuels) 2002..	X	62 623
	1997..	X	N
32731005	Portland and blended cements 2002..	X	196 675
	1997..	X	N
21232002	Sand and gravel 2002..	X	109 493
	1997..	X	N
32222403	Paper shipping sacks and multiwall bags 2002..	X	46 750
	1997..	X	N
325000C1	Industrial inorganic chemicals (excluding glue and adhesives, and other chemicals and allied products) 2002..	X	3 345
	1997..	X	N
32521115	Plastics resins (excluding vinyl) consumed in the form of granules, pellets, powders, liquids, etc. 2002..	X	2 690
	1997..	X	N
32552002	Glues and adhesives 2002..	X	6 577
	1997..	X	N
32500047	Other chemical and allied products 2002..	X	6 602
	1997..	X	7 092
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 2002..	X	2 170
	1997..	X	3 746
00970099	All other materials and components, parts, containers, and supplies 2002..	X	167 453
	1997..	X	558 665
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	155 495
	1997..	X	157 972
331111	Iron and steel mills		
00900001	Total materials 2002..	X	23 153 876
	1997..	X	26 731 637
32741009	Dead-burned dolomite fluxes 2002..	X	85 581
	1997..	X	89 844
32799209	Fluorspar fluxes 2002..	X	D
	1997..	X	10 120
32799211	Other fluxes 2002..	X	124 722
	1997..	X	132 486
32700013	All other stone, clay, glass, and concrete products 2002..	X	11 555
	1997..	X	14 029
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) 2002..	X	92 129
	1997..	X	87 206
32512003	Oxygen (including high and low purity) 2002..	X	348 088
	1997..	X	425 858
32518802	Sulfuric acid, new and spent (100 percent H2SO4) 2002..	X	8 352
	1997..	X	N
32500039	All other chemicals and allied products 2002..	X	47 245
	1997..	X	31 965
21221011	Mining crude iron ore and iron ore concentrates, including pelletized and manganiferous (gross weight) 1,000 s tons . 2002..	41 689.2	1 688 479
	1997..	32 342.2	1 351 456
21221009	Mining iron ore agglomerates, including pelletized and manganiferous (gross weight) 1,000 s tons . 2002..	S	592 786
	1997..	52 003.3	1 893 821
21229901	Mining manganese ore (including 10 percent manganese) and ferroalloy ore 2002..	X	25 907
	1997..	X	23 056
21220013	All other metal mining 2002..	X	D
	1997..	X	—
21211001	Coal used in the production of coke 1,000 s tons . 2002..	118 544.8	942 513
	1997..	28 355.4	1 379 566
00190023	Iron and steel scrap, excluding home scrap 1,000 s tons . 2002..	S	5 168 064
	1997..	48 134.3	6 160 824
00190053	Direct-reduced iron (DRI) 1,000 s tons . 2002..	672.9	66 658
	1997..	929.2	116 007
33120045	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) 1,000 s tons . 2002..	7 238.2	999 123
	1997..	2 568.8	692 283
32410017	Lubricating oils and greases and other petroleum products 2002..	X	132 447
	1997..	X	165 672
33350003	Industrial dies, molds, jigs, and fixtures 2002..	X	93 281
	1997..	X	69 374
33599103	Carbon and graphite electrodes 2002..	X	240 439
	1997..	X	916 599

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331111	Iron and steel mills—Con.		
33120075	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 885 732
	.....1997..	X	3 654 876
33111203	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	¶609.1	315 360
	.....1997..	654.7	404 289
33111205	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	¶181.0	92 433
	.....1997..	217.5	162 456
33111207	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	¶144.8	82 816
	.....1997..	155.5	120 807
33111209	Ferrovandium 1,000 s tons ..2002..	S	40 519
	.....1997..	5.9	78 248
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	S	124 287
	.....1997..	¶76.1	124 642
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	222 042
	.....1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	¶21.7	132 001
	.....1997..	37.8	231 389
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	¶10.4	47 379
	.....1997..	8.1	45 873
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	S	239 339
	.....1997..	¶208.1	262 653
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	112 583
	.....1997..	X	N
33151103	Gray iron ingot molds and stools .....2002..	X	17 045
	.....1997..	X	29 352
33151007	All other iron and steel castings .....2002..	X	238 580
	.....1997..	X	149 742
32712400	Clay refractories .....2002..	X	189 073
	.....1997..	X	243 958
32712500	Nonclay refractories .....2002..	X	159 848
	.....1997..	X	223 997
32741007	Lime fluxes, including quicklime .....2002..	X	251 853
	.....1997..	X	311 765
32799207	Limestone fluxes .....2002..	X	51 586
	.....1997..	X	381 668
33120081	Steel rod, for wiredrawing 1,000 s tons ..2002..	S	339 691
	.....1997..	D	D
33120067	Steel wire, for redrawing 1,000 s tons ..2002..	S	61 020
	.....1997..	D	D
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) 1,000 s tons ..2002..	215.5	254 980
	.....1997..	222.7	258 808
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	5 366 483
	.....1997..	X	5 418 354
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	231 414
	.....1997..	X	874 082
331112	Electrometallurgical ferroalloy product manufacturing		
00900001	Total materials .....2002..	X	394 062
	.....1997..	X	562 971
32741009	Dead-burned dolomite fluxes .....2002..	X	D
	.....1997..	X	D
32799209	Fluorspar fluxes .....2002..	X	D
	.....1997..	X	D
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) .....2002..	X	4 861
	.....1997..	X	4 563
32512003	Oxygen (including high and low purity) .....2002..	X	D
	.....1997..	X	1 134
32500039	All other chemicals and allied products .....2002..	X	D
	.....1997..	X	1 593
21229901	Mining manganese ore (including 10 percent manganese) and ferroalloy ore .....2002..	X	D
	.....1997..	X	D
21220013	All other metal mining .....2002..	X	D
	.....1997..	X	-
21211001	Coal used in the production of coke 1,000 s tons ..2002..	D	D
	.....1997..	D	D
00190023	Iron and steel scrap, excluding home scrap 1,000 s tons ..2002..	D	D
	.....1997..	S	46 057
00190053	Direct-reduced iron (DRI) 1,000 s tons ..2002..	D	D
	.....1997..	N	N
33120045	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	D	D
	.....1997..	D	D
32410017	Lubricating oils and greases and other petroleum products .....2002..	X	D
	.....1997..	X	890
33599103	Carbon and graphite electrodes .....2002..	X	12 149
	.....1997..	X	32 231
33111205	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons ..2002..	D	D
	.....1997..	D	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331112	Electrometallurgical ferroalloy product manufacturing —Con.		
3311207	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	7.3	4 050
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	—	—
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	1.7	11 442
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	N	N
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33151103	Gray iron ingot molds and stools 2002..	X	D
	1997..	X	84
32712400	Clay refractories 2002..	X	D
	1997..	X	1 316
32712500	Nonclay refractories 2002..	X	D
	1997..	X	11 517
32741007	Lime fluxes, including quicklime 2002..	X	D
	1997..	X	D
32799207	Limestone fluxes 2002..	X	D
	1997..	X	D
33120067	Steel wire, for redrawing 1,000 s tons 2002..	D	D
	1997..	N	N
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) 1,000 s tons 2002..	D	D
	1997..	D	D
00970099	All other materials and components, parts, containers, and supplies 2002..	X	211 030
	1997..	X	363 609
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	1 319
	1997..	X	8 586
331210	Iron and steel pipe and tube manufacturing from purchased steel		
00900001	Total materials 2002..	X	3 347 331
	1997..	X	4 267 754
32799211	Other fluxes 2002..	X	D
	1997..	X	1 294
32700013	All other stone, clay, glass, and concrete products 2002..	X	D
	1997..	X	—
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) 2002..	X	6 043
	1997..	X	11 006
32512003	Oxygen (including high and low purity) 2002..	X	201
	1997..	X	887
32518802	Sulfuric acid, new and spent (100 percent H2SO4) 2002..	X	D
	1997..	X	N
32500039	All other chemicals and allied products 2002..	X	2 513
	1997..	X	275
32410017	Lubricating oils and greases and other petroleum products 2002..	X	4 078
	1997..	X	15 968
33350003	Industrial dies, molds, jigs, and fixtures 2002..	X	4 532
	1997..	X	10 427
33120075	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	2 254 124
	1997..	X	3 114 161
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	P390.0	199 330
	1997..	D	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	609
	1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	D	D
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	16.5	20 247
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	72 239
	1997..	X	N
33151007	All other iron and steel castings 2002..	X	D
	1997..	X	—
32712400	Clay refractories 2002..	X	D
	1997..	X	—
32712500	Nonclay refractories 2002..	X	D
	1997..	X	—
32741007	Lime fluxes, including quicklime 2002..	X	D
	1997..	X	34
33120067	Steel wire, for redrawing 1,000 s tons 2002..	D	D
	1997..	N	N
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) 1,000 s tons 2002..	D	D
	1997..	N	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	629 192
	1997..	X	616 127
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	105 059
	1997..	X	435 407

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331221	Rolled steel shape manufacturing		
00900001	Total materials	X	2 609 931
	.....2002..	X	
	.....1997..	X	3 949 303
32741009	Dead-burned dolomite fluxes	X	D
	.....2002..	X	
	.....1997..	X	N
32799209	Fluorspar fluxes	X	D
	.....2002..	X	
	.....1997..	X	N
32799211	Other fluxes	X	D
	.....2002..	X	
	.....1997..	X	N
32700013	All other stone, clay, glass, and concrete products	X	D
	.....2002..	X	
	.....1997..	X	N
32500011	Industrial chemicals (excluding sulfuric acid and oxygen)	X	4 731
	.....2002..	X	
	.....1997..	X	12 322
32512003	Oxygen (including high and low purity)	X	D
	.....2002..	X	
	.....1997..	X	D
32518802	Sulfuric acid, new and spent (100 percent H2SO4)	X	249
	.....2002..	X	
	.....1997..	X	N
32500039	All other chemicals and allied products	X	4 251
	.....2002..	X	
	.....1997..	X	3 132
21221011	Mining crude iron ore and iron ore concentrates, including pelletized and manganiferous (gross weight)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
21221009	Mining iron ore agglomerates, including pelletized and manganiferous (gross weight)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
21220013	All other metal mining	X	D
	.....2002..	X	
	.....1997..	X	N
21211001	Coal used in the production of coke	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
00190023	Iron and steel scrap, excluding home scrap	874.8	104 087
	.....1,000 s tons ..2002..		
	.....1997..		-
33120045	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
32410017	Lubricating oils and greases and other petroleum products	X	5 011
	.....2002..	X	
	.....1997..	X	10 307
33350003	Industrial dies, molds, jigs, and fixtures	X	1 231
	.....2002..	X	
	.....1997..	X	1 081
33599103	Carbon and graphite electrodes	X	6 578
	.....2002..	X	
	.....1997..	X	N
33120075	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 710 893
	.....2002..	X	
	.....1997..	X	2 473 838
33111203	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
33111205	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
33111207	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	N	
	.....1997..	N	N
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	-	
	.....1997..	-	-
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	
	.....1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products)	3.0	21 509
	.....1,000 s tons ..2002..	D	
	.....1997..	D	D
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons ..2002..	D	
	.....1997..	D	D
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	61 419
	.....2002..	X	
	.....1997..	X	N
32712400	Clay refractories	X	D
	.....2002..	X	
	.....1997..	X	D
32712500	Nonclay refractories	X	D
	.....2002..	X	
	.....1997..	X	N
32741007	Lime fluxes, including quicklime	X	D
	.....2002..	X	
	.....1997..	X	D
32799207	Limestone fluxes	X	D
	.....2002..	X	
	.....1997..	X	N
33120081	Steel rod, for wiredrawing	P115.0	54 989
	.....1,000 s tons ..2002..		
	.....1997..	156.8	89 015
33120067	Steel wire, for redrawing	S	36 601
	.....1,000 s tons ..2002..	S	
	.....1997..	S	168 133
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.)	31.0	30 806
	.....1,000 s tons ..2002..	D	
	.....1997..	D	D
00970099	All other materials and components, parts, containers, and supplies	X	354 962
	.....2002..	X	
	.....1997..	X	961 122
00971000	Materials, ingredients, containers, and supplies, nsk	X	105 646
	.....2002..	X	
	.....1997..	X	213 147
331222	Steel wire drawing		
00900001	Total materials	X	2 138 457
	.....2002..	X	
	.....1997..	X	2 629 735
32799211	Other fluxes	X	149
	.....2002..	X	
	.....1997..	X	D
32500011	Industrial chemicals (excluding sulfuric acid and oxygen)	X	3 477
	.....2002..	X	
	.....1997..	X	6 875
32512003	Oxygen (including high and low purity)	X	D
	.....2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331222	Steel wire drawing—Con.		
32518802	Sulfuric acid, new and spent (100 percent H2SO4) 1997..	X	D
	.....2002..	X	710
32500039	All other chemicals and allied products 1997..	X	N
	.....2002..	X	4 686
21211001	Coal used in the production of coke 1,000 s tons 1997..	X	11 110
	.....2002..	D	D
00190023	Iron and steel scrap, excluding home scrap 1,000 s tons 1997..	N	N
	.....2002..	D	D
32410017	Lubricating oils and greases and other petroleum products 1997..	N	—
	.....2002..	X	4 465
33350003	Industrial dies, molds, jigs, and fixtures 1997..	X	7 870
	.....2002..	X	7 241
33120075	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	11 291
	.....2002..	X	82 869
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 1997..	D	D
	.....2002..	D	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 1997..	X	D
	.....2002..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 1997..	D	D
	.....2002..	.1	1 498
33141939	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 1997..	D	D
	.....2002..	D	D
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 1997..	S	21 246
	.....2002..	27.1	33 127
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	4 206
	.....2002..	X	N
33151007	All other iron and steel castings 1997..	X	D
	.....2002..	X	D
32741007	Lime fluxes, including quicklime 1997..	X	537
	.....2002..	X	D
33120081	Steel rod, for wiredrawing 1,000 s tons 1997..	S	1 378 116
	.....2002..	P3 815.4	1 568 597
33120067	Steel wire, for redrawing 1,000 s tons 1997..	S	194 530
	.....2002..	546.5	253 232
00970099	All other materials and components, parts, containers, and supplies 1997..	X	230 797
	.....2002..	X	403 825
00971000	Materials, ingredients, containers, and supplies, nsk 1997..	X	198 326
	.....2002..	X	138 410
331311	Alumina refining		
00900001	Total materials 1997..	X	D
	.....2002..	X	625 521
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) 1,000 s tons 1997..	D	D
	.....2002..	9172.4	22 149
325000A5	Other industrial inorganic chemicals 1997..	X	34 569
	.....2002..	X	34 394
21229903	Bauxite 1,000 s tons 1997..	X	D
	.....2002..	11 709.8	361 988
33300015	Parts and attachments for machinery and equipment 1997..	X	D
	.....2002..	X	63 571
00970099	All other materials and components, parts, containers, and supplies 1997..	X	30 987
	.....2002..	X	143 419
00971000	Materials, ingredients, containers, and supplies, nsk 1997..	X	178 906
	.....2002..	X	—
331312	Primary aluminum production		
00900001	Total materials 1997..	X	1 708 790
	.....2002..	X	2 474 128
33131209	Aluminum and aluminum-base alloy ingot 1,000 s tons 1997..	D	D
	.....2002..	162.4	246 505
33100009	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	D
	.....2002..	X	183 113
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) including blister and anode copper 1,000 s tons 1997..	D	D
	.....2002..	D	D
33100015	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	D
	.....2002..	X	2 797
33141937	Magnesium and magnesium-base alloy ingot 1997..	X	36 986
	.....2002..	X	52 638
33141907	All other magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	D
	.....2002..	X	15 246
33141927	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 1997..	X	D
	.....2002..	X	47 331
00190040	Aluminum and aluminum-base alloy scrap (excluding home scrap) 1,000 s tons 1997..	5.5	5 803
	.....2002..	D	D
00190052	All other nonferrous metal and metal-base alloy scrap 1997..	X	D
	.....2002..	X	—

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331312	Primary aluminum production—Con.		
33131100	Alumina (gross weight) 1,000 s tons 2002..	P5 158.2	807 356
	1997..	6 209.6	1 266 680
00970099	All other materials and components, parts, containers, and supplies 2002..	X	659 724
	1997..	X	632 759
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	65 063
	1997..	X	—
331314	Secondary smelting and alloying of aluminum		
00900001	Total materials 2002..	X	2 630 729
	1997..	X	2 613 093
33131209	Aluminum and aluminum-base alloy ingot 1,000 s tons 2002..	S	573 638
	1997..	61 590.0	284 026
33100009	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	88 595
	1997..	X	166 064
00190020	Aluminum and aluminum-base alloy scrap (excluding home scrap) 1,000 s tons 2002..	Q1 683.0	1 641 264
	1997..	1 290.7	1 678 866
00190052	All other nonferrous metal and metal-base alloy scrap 2002..	X	11 373
	1997..	X	261 695
00970099	All other materials and components, parts, containers, and supplies 2002..	X	204 486
	1997..	X	221 739
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	111 373
	1997..	X	703
331315	Aluminum sheet, plate, and foil manufacturing		
00900001	Total materials 2002..	X	7 393 256
	1997..	X	9 270 465
33131205	Unalloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	S	1 444 155
	1997..	2 026.8	2 840 312
33131207	Alloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	P1 097.9	1 690 077
	1997..	1 489.7	1 566 026
33131501	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing mil lb 2002..	P1 968.8	1 437 545
	1997..	2 152.1	1 587 266
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.) mil lb 2002..	S	55 491
	1997..	D	D
33100011	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, ingot, pig shot, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal) 2002..	X	307 871
	1997..	X	190 651
33141935	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	S	43 422
	1997..	47.8	142 273
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
00190021	Aluminum and aluminum-base alloy scrap (excluding home scrap) from other establishments of your company 1,000 s tons 2002..	S	786 576
	1997..	1 353.7	920 059
00190022	Aluminum and aluminum-base alloy scrap (excluding home scrap) from all other sources 1,000 s tons 2002..	S	717 867
	1997..	629.3	661 748
33141105	Copper and copper-base alloy refinery shapes (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	Q9	1 473
	1997..	N	N
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
00190080	Other nonferrous metal scrap (excluding home scrap) 1,000 s tons 2002..	D	D
	1997..	D	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) 2002..	X	76 310
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	720 167
	1997..	X	1 119 679
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	35 710
	1997..	X	—
331316	Aluminum extruded product manufacturing		
00900001	Total materials 2002..	X	3 098 629
	1997..	X	3 492 111
33131205	Unalloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	Q365.4	441 941
	1997..	558.1	820 314
33131207	Alloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	Q597.6	845 785
	1997..	908.8	1 276 928
33131501	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing mil lb 2002..	S	3 065
	1997..	.8	4 260
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.) mil lb 2002..	Q268.5	266 832
	1997..	222.9	217 119
33100011	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, ingot, pig shot, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal) 2002..	X	409 493
	1997..	X	406 558

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331316	Aluminum extruded product manufacturing—Con.		
33141935	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	S	5 893
	1997..	7.8	22 938
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	6 483
	1997..	X	N
00190021	Aluminum and aluminum-base alloy scrap (excluding home scrap) from other establishments of your company 1,000 s tons 2002..	^a 58.0	70 845
	1997..	111.5	149 921
00190022	Aluminum and aluminum-base alloy scrap (excluding home scrap) from all other sources 1,000 s tons 2002..	^a 178.5	206 898
	1997..	226.1	232 486
33141105	Copper and copper-base alloy refinery shapes (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	D	D
	1997..	N	N
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
00190080	Other nonferrous metal scrap (excluding home scrap) 1,000 s tons 2002..	S	1 855
	1997..	D	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) 2002..	X	18 836
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	402 396
	1997..	X	318 617
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	407 227
	1997..	X	—
331319	Other aluminum rolling and drawing		
00900001	Total materials 2002..	X	787 593
	1997..	X	1 078 589
33131205	Unalloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	D	D
	1997..	139.3	217 042
33131207	Alloyed aluminum and aluminum-base alloy ingot, pig, and shot 1,000 s tons 2002..	123.2	108 957
	1997..	32.7	68 978
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.) mil lb 2002..	S	102 985
	1997..	P193.3	166 644
33100012	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	31 051
	1997..	X	N
33100078	All other nonferrous metal shapes and forms (excluding aluminum and aluminum-base castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
00190020	Aluminum and aluminum-base alloy scrap (excluding home scrap) 1,000 s tons 2002..	D	D
	1997..	N	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	351 906
	1997..	X	622 573
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	59 460
	1997..	X	3 352
331411	Primary smelting and refining of copper		
00900001	Total materials 2002..	X	1 681 628
	1997..	X	4 729 819
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) including blister and anode copper 1,000 s tons 2002..	994.8	1 175 244
	1997..	1 729.3	3 411 290
33141902	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
21223400	Mining copper ores, concentrates and precipitates (gross weight) 1,000 s tons 2002..	D	D
	1997..	S	922 003
00970099	All other materials and components, parts, containers, and supplies 2002..	X	55 606
	1997..	X	396 526
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)		
00900001	Total materials 2002..	X	1 075 321
	1997..	X	1 661 207
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) including blister and anode copper 1,000 s tons 2002..	D	D
	1997..	D	D
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	48.3	39 594
	1997..	92.8	79 715
33141938	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33141902	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	177 322
	1997..	X	N
33141928	All other nonferrous metal shapes and forms (excluding refined unalloyed copper, precious metal, tin, and zinc castings, forgings, and fabricated metal products) 2002..	X	38 951
	1997..	X	N
21223400	Mining copper ores, concentrates and precipitates (gross weight) 1,000 s tons 2002..	D	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)—Con.		
	1997..	D	D
21220016	All other nonferrous metal ores and concentrates, including precious metal ores and concentrates (excluding copper ores, concentrates, and precipitates)	2002..	221 640
	1997..	X	N
00190051	Precious metal and precious metal alloy scrap	2002..	D
	1997..	X	61 535
00190057	All other nonferrous metal and metal-base alloy scrap (including aluminum and aluminum-base alloy, copper and copper-base alloy, lead and lead-base alloy, zinc and zinc-base alloy, and tinplate)	2002..	129 726
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	2002..	297 349
	1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	9 512
	1997..	X	44 832
331421	Copper rolling, drawing, and extruding		
00900001	Total materials	2002..	4 427 120
	1997..	X	4 937 211
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	4 644
	1997..	X	N
33141101	Copper and copper-base alloy cathodes	1 394.4	1 749 648
	1,000 s tons	2 517.7	1 133 891
33141113	Copper and copper-base alloy ingot, ingot bar, and wire bar	P25.7	41 222
	1,000 s tons	81.4	251 682
33141111	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, cathodes, ingots, ingot bars, and wire bar)	P804.6	1 012 677
	1,000 s tons	439.5	1 157 066
33141925	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	S	38 835
	1,000 s tons	1.4	38 044
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	959.1	47 049
	1,000 s tons	55.7	83 559
33141949	Tin and tin-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 571
	1,000 s tons	X	12 897
33141903	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	1,000 troy ounces	66.6	26 222
33142101	Brass shapes and forms (excluding castings, forgings, and fabricated metal products)	91.5	123 231
	1,000 s tons	D	D
33141921	All other nonferrous metal shapes and forms (excluding tin and tin-base alloy and zinc and zinc-base alloy castings, forgings, and fabricated metal products)	X	3 209
	mil lb	X	D
00190024	Copper and copper-base alloy scrap (excluding home scrap)	P870.3	953 652
	1,000 s tons	564.3	1 286 890
00190080	Other nonferrous metal scrap (excluding home scrap)	D	D
	1,000 s tons	D	D
00970099	All other materials and components, parts, containers, and supplies	X	281 049
	2002..	X	354 448
00971000	Materials, ingredients, containers, and supplies, nsk	X	92 529
	1997..	X	67 555
331422	Copper wire (except mechanical) drawing		
00900001	Total materials	2002..	1 733 536
	1997..	X	643 239
33142127	Unalloyed copper and copper-base alloy rods	P612.6	512 866
	mil lb	P210.1	234 660
33142119	Copper and copper-base alloy wire for redrawing	384.4	311 498
	mil lb	34.0	39 897
33100091	Bare copper and copper-base alloy wire, electrical (excluding wire for redrawing)	88.5	98 421
	mil lb	8.0	12 248
331000A5	Insulated copper wire and cable	X	58 208
	1997..	X	56 280
33142147	All other copper and copper-base alloy shapes and forms (including wire bar)	S	149 958
	mil lb	47.2	70 559
33100080	All other nonferrous metal shapes and forms (excluding copper and copper-base alloy electrical bare wire, insulated wire and cable, castings, forgings, and fabricated metal products)	75.8	80 611
	mil lb	N	N
32500045	Chemicals, all types (including propellants)	X	187 291
	2002..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	216 789
	1997..	X	229 595
00971000	Materials, ingredients, containers, and supplies, nsk	X	117 894
	1997..	X	—
331423	Secondary smelting, refining, and alloying of copper		
00900001	Total materials	2002..	427 016
	1997..	X	791 638
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) including blister and anode copper	D	D
	1,000 s tons	2.4	4 933

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331423	Secondary smelting, refining, and alloying of copper —Con.		
33100015	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	110 710
	1997..	X	154 110
33100075	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
00190024	Copper and copper-base alloy scrap (excluding home scrap) 1,000 s tons 2002..	S	270 661
	1997..	N	578 538
00190026	Zinc and zinc-base alloy scrap (including drosses and skimmings) 2002..	X	D
	1997..	X	1 717
00190052	All other nonferrous metal and metal-base alloy scrap 2002..	X	11 741
	1997..	X	26 157
00970099	All other materials and components, parts, containers, and supplies 2002..	X	16 112
	1997..	X	18 050
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	9 455
	1997..	X	8 133
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding		
00900001	Total materials 2002..	X	1 983 348
	1997..	X	3 624 148
33122200	Bare steel wire 1,000 s tons 2002..	5.1	8 835
	1997..	S	38 483
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.) mil lb 2002..	D	D
	1997..	61.9	53 608
33100010	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33142127	Unalloyed copper and copper-base alloy rods mil lb 2002..	D	D
	1997..	520.0	495 198
33142129	Alloyed copper and copper-base alloy rods mil lb 2002..	D	D
	1997..	129.0	145 710
33142119	Copper and copper-base alloy wire for redrawing mil lb 2002..	15.9	13 448
	1997..	¶88.2	76 825
33100091	Bare copper and copper-base alloy wire, electrical (excluding wire for redrawing) mil lb 2002..	D	D
	1997..	57.9	89 929
331000A5	Insulated copper wire and cable 2002..	X	18 605
	1997..	X	64 068
33141111	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, cathodes, ingots, ingot bars, and wire bar) 1,000 s tons 2002..	S	5 780
	1997..	X	39 195
33141935	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	2.1	5 500
	1997..	11.3	47 902
33141925	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	¶23.4	142 089
	1997..	9.6	279 131
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	¶56.0	46 541
	1997..	32.6	50 907
33141945	Molybdenum and molybdenum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) mil lb 2002..	S	21 643
	1997..	4.4	30 540
33149101	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	21.3	244 854
	1997..	66.5	411 321
33141903	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 troy ounces 2002..	S	180 563
	1997..	2 760.5	255 291
33141922	All other nonferrous metal shapes and forms (excluding copper, nickel, precious metals, molybdenum, titanium, and zinc castings, forgings, fabricated metal products) 2002..	X	98 625
	1997..	X	N
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap) 2002..	X	83 857
	1997..	X	N
32521101	Plastics materials and resins 2002..	X	D
	1997..	X	N
32500029	All other chemicals and allied products (excluding plastics materials and resins) mil lb 2002..	¶6.8	26 646
	1997..	¶15.0	25 449
00970099	All other materials and components, parts, containers, and supplies 2002..	X	706 287
	1997..	X	903 606
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	268 828
	1997..	X	616 985
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)		
00900001	Total materials 2002..	X	1 293 734
	1997..	X	1 765 402
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) including blister and anode copper 1,000 s tons 2002..	D	D
	1997..	S	38
33141923	Lead-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	3 765

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)—Con.		
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons .. 2002 ..	97.6	77 223
	..... 1997 ..	79.5	117 992
33141938	Tin shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	6 539
	..... 1997 ..	X	N
33141902	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	60 276
	..... 1997 ..	X	N
33141929	All other nonferrous metal shapes and forms (excluding aluminum, refined unalloyed copper, precious metal, lead, tin, and zinc-base alloy castings, forgings, and fabricated metal products) 2002 ..	X	59 633
	..... 1997 ..	X	62 253
21220015	All other nonferrous metal ores and concentrates 2002 ..	X	56 868
	..... 1997 ..	X	16 858
00190034	Copper and copper-base alloy scrap (excluding home scrap) 2002 ..	X	D
	..... 1997 ..	X	N
00190025	Lead and lead-base alloy scrap 2002 ..	X	142 772
	..... 1997 ..	X	285 554
00190026	Zinc and zinc-base alloy scrap (including drosses and skimmings) 2002 ..	X	60 709
	..... 1997 ..	X	42 908
00190051	Precious metal and precious metal alloy scrap 2002 ..	X	97 326
	..... 1997 ..	X	S
00190052	All other nonferrous metal and metal-base alloy scrap 2002 ..	X	158 380
	..... 1997 ..	X	166 503
00970099	All other materials and components, parts, containers, and supplies 2002 ..	X	355 671
	..... 1997 ..	X	650 270
00971000	Materials, ingredients, containers, and supplies, nsk 2002 ..	X	146 392
	..... 1997 ..	X	272 546
331511	Iron foundries		
00900001	Total materials 2002 ..	X	3 327 253
	..... 1997 ..	X	4 103 483
33120044	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) 2002 ..	X	217 982
	..... 1997 ..	X	N
33111204	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	36 249
	..... 1997 ..	X	N
33111202	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	45 324
	..... 1997 ..	X	N
33111206	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	196 417
	..... 1997 ..	X	N
33100013	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	128 307
	..... 1997 ..	X	289 588
33141924	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	26 607
	..... 1997 ..	X	N
33141947	Cobalt-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	2 324
	..... 1997 ..	X	D
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002 ..	X	89 037
	..... 1997 ..	X	D
00190027	Iron and steel scrap (excluding home scrap) 2002 ..	X	978 704
	..... 1997 ..	X	N
00190082	All other purchased scrap, excluding home scrap 2002 ..	X	46 797
	..... 1997 ..	X	135 050
32712400	Clay refractories 2002 ..	X	36 631
	..... 1997 ..	X	41 386
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds 2002 ..	X	34 224
	..... 1997 ..	X	43 967
32712500	Nonclay refractories 2002 ..	X	14 962
	..... 1997 ..	X	36 763
32700009	All other stone, clay, glass, and concrete products 2002 ..	X	19 413
	..... 1997 ..	X	14 618
33299700	Industrial patterns 2002 ..	X	45 783
	..... 1997 ..	X	48 998
33350003	Industrial dies, molds, jigs, and fixtures 2002 ..	X	28 857
	..... 1997 ..	X	20 207
001900A5	All other industrial and commercial machinery and computer equipment 2002 ..	X	35 483
	..... 1997 ..	X	39 103
21232005	Sand 2002 ..	X	173 470
	..... 1997 ..	X	213 801
00970099	All other materials and components, parts, containers, and supplies 2002 ..	X	1 108 912
	..... 1997 ..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk 2002 ..	X	61 770
	..... 1997 ..	X	63 916

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331512	Steel investment foundries		
00900001	Total materials .....2002..	X	512 278
	.....1997..	X	533 555
33120044	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) .....2002..	X	671
	.....1997..	X	N
33111204	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 322
	.....1997..	X	N
33111202	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	651
	.....1997..	X	N
33111206	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 179
	.....1997..	X	N
33100013	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	17 711
	.....1997..	X	29 489
33141924	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	83 346
	.....1997..	X	N
33141947	Cobalt-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	29 161
	.....1997..	X	36 769
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	7 094
	.....1997..	X	32 879
00190027	Iron and steel scrap (excluding home scrap) .....2002..	X	26 671
	.....1997..	X	N
00190082	All other purchased scrap, excluding home scrap .....2002..	X	3 130
	.....1997..	X	2 990
32712400	Clay refractories .....2002..	X	2 605
	.....1997..	X	3 243
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	14 214
	.....1997..	X	19 670
32712500	Nonclay refractories .....2002..	X	22 720
	.....1997..	X	26 592
32700009	All other stone, clay, glass, and concrete products .....2002..	X	2 620
	.....1997..	X	3 337
33299700	Industrial patterns .....2002..	X	4 151
	.....1997..	X	3 450
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	16 502
	.....1997..	X	18 001
001900A5	All other industrial and commercial machinery and computer equipment .....2002..	X	14 122
	.....1997..	X	3 628
21232005	Sand .....2002..	X	16 660
	.....1997..	X	12 298
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	245 160
	.....1997..	X	333 511
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	588
	.....1997..	X	7 698
331513	Steel foundries (except investment)		
00900001	Total materials .....2002..	X	837 249
	.....1997..	X	813 365
33120044	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33111204	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 236
	.....1997..	X	N
33111202	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	15 997
	.....1997..	X	N
33111206	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 131
	.....1997..	X	N
33100013	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	80 425
	.....1997..	X	68 729
33141924	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	24 879
	.....1997..	X	N
33141947	Cobalt-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 864
	.....1997..	X	4 095
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	11 059
	.....1997..	X	20 234
00190027	Iron and steel scrap (excluding home scrap) .....2002..	X	215 554
	.....1997..	X	N
00190082	All other purchased scrap, excluding home scrap .....2002..	X	53 871
	.....1997..	X	69 667
32712400	Clay refractories .....2002..	X	5 110
	.....1997..	X	9 609
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	16 140
	.....1997..	X	20 664
32712500	Nonclay refractories .....2002..	X	8 995
	.....1997..	X	14 923
32700009	All other stone, clay, glass, and concrete products .....2002..	X	3 651
	.....1997..	X	4 539

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331513	Steel foundries (except investment)—Con.		
33299700	Industrial patterns .....2002..	X	5 632
	.....1997..	X	15 234
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	D
	.....1997..	X	4 828
001900A5	All other industrial and commercial machinery and computer equipment .....2002..	X	5 644
	.....1997..	X	6 029
21232005	Sand .....2002..	X	23 100
	.....1997..	X	33 532
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	259 740
	.....1997..	X	496 076
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	22 471
	.....1997..	X	45 206
331521	Aluminum die-casting foundries		
00900001	Total materials .....2002..	X	1 719 151
	.....1997..	X	1 581 260
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	644 386
	.....1997..	X	N
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 097
	.....1997..	X	N
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 414
	.....1997..	X	N
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products) .....2002..	X	50 755
	.....1997..	X	1 525
00190034	Copper and copper-base alloy scrap (excluding home scrap) .....2002..	X	D
	.....1997..	X	N
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap) .....2002..	X	196 395
	.....1997..	X	N
00190079	Other nonferrous metal scrap (excluding home scrap) .....2002..	X	D
	.....1997..	X	N
33299700	Industrial patterns .....2002..	X	D
	.....1997..	X	745
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	128 039
	.....1997..	X	51 227
001900A4	All other industrial and commercial machinery and computer equipment .....2002..	X	22 567
	.....1997..	X	4 567
21232005	Sand .....2002..	X	1 042
	.....1997..	X	1 948
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	5 006
	.....1997..	X	2 522
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	326 478
	.....1997..	X	1 290 814
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	113 989
	.....1997..	X	157 317
331522	Nonferrous (except aluminum) die-casting foundries		
00900001	Total materials .....2002..	X	594 072
	.....1997..	X	674 930
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	38 276
	.....1997..	X	26 603
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	54 231
	.....1997..	X	N
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	104 689
	.....1997..	X	N
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	121 260
	.....1997..	X	N
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products) .....2002..	X	23 047
	.....1997..	X	28 120
00190034	Copper and copper-base alloy scrap (excluding home scrap) .....2002..	X	8 429
	.....1997..	X	N
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap) .....2002..	X	D
	.....1997..	X	N
00190079	Other nonferrous metal scrap (excluding home scrap) .....2002..	X	2 003
	.....1997..	X	N
33299700	Industrial patterns .....2002..	X	D
	.....1997..	X	259
33350003	Industrial dies, molds, jigs, and fixtures .....2002..	X	19 411
	.....1997..	X	10 792
001900A4	All other industrial and commercial machinery and computer equipment .....2002..	X	D
	.....1997..	X	934
21232005	Sand .....2002..	X	D
	.....1997..	X	2 531
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	7 631
	.....1997..	X	5 560

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331522	Nonferrous (except aluminum) die-casting foundries —Con.		
00970099	All other materials and components, parts, containers, and supplies	X	118 005
	.....2002..	X	485 540
	.....1997..	X	77 353
00971000	Materials, ingredients, containers, and supplies, nsk	X	114 591
	.....2002..	X	
	.....1997..	X	
331524	Aluminum foundries (except die-casting)		
00900001	Total materials	X	1 282 389
	.....2002..	X	1 415 009
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 837
	.....2002..	X	7 082
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	641 139
	.....2002..	X	N
	.....1997..	X	
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 883
	.....2002..	X	N
	.....1997..	X	
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	32 137
	.....2002..	X	N
	.....1997..	X	
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	D
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..	X	
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	96 049
	.....2002..	X	N
	.....1997..	X	
00190079	Other nonferrous metal scrap (excluding home scrap)	X	15 507
	.....2002..	X	N
	.....1997..	X	
33299700	Industrial patterns	X	19 717
	.....2002..	X	21 279
	.....1997..	X	
33350003	Industrial dies, molds, jigs, and fixtures	X	D
	.....2002..	X	87 442
	.....1997..	X	
001900A4	All other industrial and commercial machinery and computer equipment	X	6 671
	.....2002..	X	3 186
	.....1997..	X	
21232005	Sand	X	26 381
	.....2002..	X	20 797
	.....1997..	X	
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	8 416
	.....2002..	X	8 823
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	303 207
	.....2002..	X	1 151 057
	.....1997..	X	23 737
00971000	Materials, ingredients, containers, and supplies, nsk	X	113 077
	.....2002..	X	
	.....1997..	X	
331525	Copper foundries (except die-casting)		
00900001	Total materials	X	196 493
	.....2002..	X	273 912
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	95 680
	.....2002..	X	109 461
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	6 550
	.....2002..	X	N
	.....1997..	X	
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	430
	.....2002..	X	N
	.....1997..	X	
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 094
	.....2002..	X	N
	.....1997..	X	
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	811
	.....2002..	X	561
	.....1997..	X	
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	12 110
	.....2002..	X	N
	.....1997..	X	
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	608
	.....2002..	X	N
	.....1997..	X	
00190079	Other nonferrous metal scrap (excluding home scrap)	X	1 266
	.....2002..	X	N
	.....1997..	X	
33299700	Industrial patterns	X	1 831
	.....2002..	X	2 882
	.....1997..	X	
33350003	Industrial dies, molds, jigs, and fixtures	X	1 264
	.....2002..	X	757
	.....1997..	X	
001900A4	All other industrial and commercial machinery and computer equipment	X	702
	.....2002..	X	1 772
	.....1997..	X	
21232005	Sand	X	3 279
	.....2002..	X	4 626
	.....1997..	X	
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	2 210
	.....2002..	X	2 796
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	42 478
	.....2002..	X	88 480
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	26 180
	.....2002..	X	62 577
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
331528	Other nonferrous foundries (except die-casting)		
00900001	Total materials	X	198 055
	.....2002..	X	317 270
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 431
	.....2002..	X	1 405
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 333
	.....2002..	X	N
	.....1997..		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	18 678
	.....2002..	X	N
	.....1997..		
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..		
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	11 998
	.....2002..	X	72 443
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
00190079	Other nonferrous metal scrap (excluding home scrap)	X	2 707
	.....2002..	X	N
	.....1997..		
33299700	Industrial patterns	X	1 999
	.....2002..	X	D
	.....1997..		
33350003	Industrial dies, molds, jigs, and fixtures	X	1 701
	.....2002..	X	D
	.....1997..		
001900A4	All other industrial and commercial machinery and computer equipment	X	D
	.....2002..	X	D
	.....1997..		
21232005	Sand	X	1 069
	.....2002..	X	3 861
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	2 144
	.....2002..	X	4 608
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	121 575
	.....2002..	X	203 856
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	23 414
	.....2002..	X	17 487
	.....1997..		
332111	Iron and steel forging		
00900001	Total materials	X	1 937 031
	.....2002..	X	2 062 087
	.....1997..		
33200057	Fabricated metal products (excluding forgings)	X	34 870
	.....2002..	X	N
	.....1997..		
33210001	Forgings	S	130 713
	.....1,000 s tons	P175.8	342 212
	.....2002..		
	.....1997..		
33120005	Steel ingot and semifinished shapes (blooms, billets, and slabs) (excluding castings, forgings, and fabricated metal products)	^q 269.4	172 063
	.....1,000 s tons	273.4	187 190
	.....2002..		
	.....1997..		
33120065	Steel bars, bar shapes, and other shapes and forms (excluding castings, forgings, and fabricated metal products)	^{q1} 347.9	776 083
	.....1,000 s tons	1 196.8	721 156
	.....2002..		
	.....1997..		
33149101	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	3.7	64 830
	.....1,000 s tons	3.0	79 706
	.....2002..		
	.....1997..		
33100074	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons	D	D
	.....2002..		
	.....1997..		
33100039	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	8.4	24 788
	.....1,000 s tons		
	.....2002..		
	.....1997..		
33149103	Nickel and nickel-base alloy, including nickel-copper alloys (excluding castings, forgings, and fabricated metal products)	^{q8.6}	85 484
	.....1,000 s tons	41.3	112 308
	.....2002..		
	.....1997..		
33351400	Forging dies	S	36 621
	.....1,000 s tons	S	54 168
	.....2002..		
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	153 075
	.....2002..	X	235 045
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	469 217
	.....2002..	X	292 800
	.....1997..		
332112	Nonferrous forging		
00900001	Total materials	X	670 666
	.....2002..	X	617 659
	.....1997..		
33200057	Fabricated metal products (excluding forgings)	X	D
	.....2002..	N	N
	.....1997..		
33210001	Forgings	S	91 233
	.....1,000 s tons	7.3	73 941
	.....2002..		
	.....1997..		
33120005	Steel ingot and semifinished shapes (blooms, billets, and slabs) (excluding castings, forgings, and fabricated metal products)	S	45 869
	.....1,000 s tons	D	D
	.....2002..		
	.....1997..		
33120065	Steel bars, bar shapes, and other shapes and forms (excluding castings, forgings, and fabricated metal products)	D	D
	.....1,000 s tons	D	D
	.....2002..		
	.....1997..		
33149101	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	S	90 915
	.....1,000 s tons	138.8	67 498
	.....2002..		
	.....1997..		
33100074	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	S	32 766
	.....1,000 s tons	D	D
	.....2002..		
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332112	Nonferrous forging—Con.		
33100039	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	S	173 271
	1997..	161.4	200 790
33149103	Nickel and nickel-base alloy, including nickel-copper alloys (excluding castings, forgings, and fabricated metal products) 1,000 s tons 2002..	P4.0	37 710
	1997..	.4	3 464
33351400	Forging dies 1,000 s tons 2002..	S	34 114
	1997..	2.1	8 223
00970099	All other materials and components, parts, containers, and supplies 2002..	X	87 783
	1997..	X	92 292
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	40 580
	1997..	X	9 673
332114	Custom roll forming		
00900001	Total materials 2002..	X	2 104 806
	1997..	X	1 794 421
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	48 900
	1997..	X	20 013
33200095	Other fabricated metal products (excluding castings and forgings) 2002..	X	74 262
	1997..	X	34 684
33100035	Castings, rough and semifinished 2002..	X	24 714
	1997..	X	9 611
33210000	Forgings 2002..	X	D
	1997..	X	N
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) 2002..	X	135 292
	1997..	X	191 886
33120016	Steel sheet and strip (including tinplate) 2002..	X	367 747
	1997..	X	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products) 2002..	X	83 313
	1997..	X	60 697
33120036	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, and structural shapes), including concrete reinforcing bars 2002..	X	424 139
	1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing 2002..	X	67 541
	1997..	X	N
33100008	All other aluminum and aluminum-base alloy shapes and forms, including refinery shapes and extruded shapes (excluding castings and forgings) 2002..	X	89 434
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	73 224
	1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product 2002..	X	D
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	210 415
	1997..	X	1 294 606
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	466 480
	1997..	X	182 924
332115	Crown and closure manufacturing		
00900001	Total materials 2002..	X	541 672
	1997..	X	476 256
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	D
	1997..	X	1 431
33200095	Other fabricated metal products (excluding castings and forgings) 2002..	X	D
	1997..	X	12 838
33151001	Iron and steel castings (rough and semifinished) 2002..	X	D
	1997..	X	874
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	2 938
33120018	Steel sheet and strip (excluding tinplate) 2002..	X	D
	1997..	X	N
33120079	Steel plate 2002..	X	D
	1997..	X	D
33120025	Steel wire and wire products 2002..	X	D
	1997..	X	D
33120013	Steel tinplate, tin free steel, terneplate, and blackplate 1,000 s tons 2002..	S	99 754
	1997..	S	167 252
33120028	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, wire, wire products, tinplate, tin free steel terneplate, and blackplate) 2002..	X	D
	1997..	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	D
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing 2002..	X	D
	1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) 2002..	X	30 855
	1997..	X	22 069

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332115	Crown and closure manufacturing—Con.		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	30 433
		1997.. X	23 917
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	D
		1997.. X	N
32500051	All other chemicals and allied products (excluding plastics materials and resins and paints, varnishes and allied products)	2002.. X	D
		1997.. X	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	5 369
		1997.. X	997
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	8 649
		1997.. X	9 720
32200007	Other paper and paperboard products	2002.. X	4 898
		1997.. X	6 353
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	2002.. X	D
		1997.. X	1 623
00970099	All other materials and components, parts, containers, and supplies	2002.. X	14 808
		1997.. X	108 612
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	42 659
		1997.. X	72 243
332116	Metal stamping		
00900001	Total materials	2002.. X	3 294 496
		1997.. X	4 738 366
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	83 065
		1997.. X	155 837
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X	332 462
		1997.. X	461 069
33151001	Iron and steel castings (rough and semifinished)	2002.. X	103 883
		1997.. X	40 449
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	24 570
		1997.. X	10 080
33210000	Forgings	2002.. X	D
		1997.. X	N
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	2002.. X	72 237
		1997.. X	91 297
33120018	Steel sheet and strip (excluding tinplate)	2002.. X	723 780
		1997.. X	N
33120079	Steel plate	2002.. X	39 805
		1997.. X	57 670
33120025	Steel wire and wire products	2002.. X	48 459
		1997.. X	30 069
33120013	Steel tinplate, tin free steel, terneplate, and blackplate	1,000 s tons 2002.. S	13 247
		1997.. S	36 028
33120028	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, wire, wire products, tinplate, tin free steel terneplate, and blackplate)	2002.. X	102 885
		1997.. X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	78 959
		1997.. X	122 710
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	61 037
		1997.. X	N
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.)	mil lb 2002.. S	18 532
		1997.. N	22 671
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002.. X	62 182
		1997.. X	73 974
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	15 904
		1997.. X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	14 771
		1997.. X	32 218
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	14 344
		1997.. X	N
32500051	All other chemicals and allied products (excluding plastics materials and resins and paints, varnishes and allied products)	2002.. X	D
		1997.. X	12 533
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	21 959
		1997.. X	17 780
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	56 527
		1997.. X	88 559
32200007	Other paper and paperboard products	2002.. X	25 066
		1997.. X	20 720
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	2002.. X	22 410

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332116	Metal stamping—Con.		
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	68 038
	.....1997..	X	558 881
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	N
	.....1997..	X	785 938
		X	950 512
332117	Powder metallurgy part manufacturing		
00900001	Total materials .....2002..	X	382 429
	.....1997..	X	416 852
33200057	Fabricated metal products (excluding forgings) .....2002..	X	5 982
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 795
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
331000AA	Metal powders .....2002..	X	247 245
	.....1997..	X	206 645
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	59 264
	.....1997..	X	110 738
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	58 887
	.....1997..	X	97 801
332211	Cutlery and flatware (except precious) manufacturing		
00900001	Total materials .....2002..	X	511 168
	.....1997..	X	395 863
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	6 795
	.....1997..	X	10 382
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	65 934
	.....1997..	X	21 898
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	14 260
	.....1997..	X	12 723
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	351
	.....1997..	X	1 654
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	D
33211101	Iron and steel forgings .....2002..	X	12 040
	.....1997..	X	22 626
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	647
	.....1997..	X	4 040
33120073	Steel sheet, strip, and tin mill products .....2002..	X	78 688
	.....1997..	X	55 874
33120025	Steel wire and wire products .....2002..	X	2 165
	.....1997..	X	1 469
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products) .....2002..	X	D
	.....1997..	X	2 678
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 253
	.....1997..	X	1 259
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32100047	Wood parts (including handles) .....2002..	X	3 770
	.....1997..	X	7 243
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	63 174
	.....1997..	X	30 493
32610003	Plastics products, including film, sheet, rod, tube, and fabricated shapes (including parts, handles, grips, etc.) .....2002..	X	82 724
	.....1997..	X	49 016
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	92 129
	.....1997..	X	49 132
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	55 393
	.....1997..	X	84 354
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	10 278
	.....1997..	X	39 336
332212	Hand and edge tool manufacturing		
00900001	Total materials .....2002..	X	1 957 144
	.....1997..	X	1 857 313
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	55 978
	.....1997..	X	56 347
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	80 326
	.....1997..	X	117 374
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	78 717
	.....1997..	X	90 283

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332212	Hand and edge tool manufacturing—Con.		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	26 857
	.....2002..	X	19 152
	.....1997..		
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	11 257
	.....2002..	X	10 616
	.....1997..	X	26 310
33211101	Iron and steel forgings	X	64 723
	.....2002..	X	
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	138 601
	.....2002..	X	306 051
	.....1997..	X	112 124
33120073	Steel sheet, strip, and tin mill products	X	159 230
	.....2002..	X	
	.....1997..		
33120025	Steel wire and wire products	X	19 939
	.....2002..	X	25 434
	.....1997..		
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products)	X	289 744
	.....2002..	X	31 586
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 856
	.....2002..	X	3 845
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	33 802
	.....2002..	X	N
	.....1997..		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..		
32100047	Wood parts (including handles)	X	67 091
	.....2002..	X	45 006
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	32 686
	.....2002..	X	36 150
	.....1997..		
32610003	Plastics products, including film, sheet, rod, tube, and fabricated shapes (including parts, handles, grips, etc.)	X	88 631
	.....2002..	X	90 562
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	70 651
	.....2002..	X	73 737
	.....1997..	X	D
00190090	Fluid power products	X	N
	.....2002..	X	
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	19 169
	.....2002..	X	N
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	470 628
	.....2002..	X	439 912
	.....1997..	X	237 384
00971000	Materials, ingredients, containers, and supplies, nsk	X	287 305
	.....2002..		
	.....1997..		
332213	Saw blade and handsaw manufacturing		
00900001	Total materials	X	318 298
	.....2002..	X	379 688
	.....1997..	X	D
33151001	Iron and steel castings (rough and semifinished)	X	13 037
	.....2002..	X	
	.....1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	D
	.....2002..	X	N
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	45 637
	.....2002..	X	41 122
	.....1997..	X	62 077
33120073	Steel sheet, strip, and tin mill products	X	105 004
	.....2002..	X	
	.....1997..		
33120025	Steel wire and wire products	X	12 634
	.....2002..	X	16 553
	.....1997..		
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products)	X	43 096
	.....2002..	X	51 132
	.....1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	388
	.....2002..	X	N
	.....1997..	X	
33200057	Fabricated metal products (excluding forgings)	X	3 739
	.....2002..	X	N
	.....1997..	X	
32100047	Wood parts (including handles)	X	D
	.....2002..	X	2 122
	.....1997..		
32610003	Plastics products, including film, sheet, rod, tube, and fabricated shapes (including parts, handles, grips, etc.)	X	6 751
	.....2002..	X	3 789
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	15 668
	.....2002..	X	16 118
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	90 776
	.....2002..	X	110 707
	.....1997..	X	33 786
00971000	Materials, ingredients, containers, and supplies, nsk	X	20 104
	.....2002..		
	.....1997..		
332214	Kitchen utensil, pot, and pan manufacturing		
00900001	Total materials	X	522 034
	.....2002..	X	454 920
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	6 753
	.....2002..	X	7 002
	.....1997..		
33200095	Other fabricated metal products (excluding castings and forgings)	X	39 884
	.....2002..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332214	Kitchen utensil, pot, and pan manufacturing—Con.		
33100035	Castings, rough and semifinished	1997.. X 2002.. X	44 104 D N
33120016	Steel sheet and strip (including tinplate)	1997.. X 2002.. X	31 609 N D
33120079	Steel plate	1997.. X 2002.. X	N D 7 560
33120026	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X 2002.. X	68 654 N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	1997.. X 2002.. X	65 629 N
33100050	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, and fabricated metal products)	2002.. X 1997.. X	116 880 N
33100083	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D N
32521101	Plastics materials and resins	2002.. X 1997.. X	11 001 N
32500028	All other chemicals and allied products (excluding plastics materials and resins)	2002.. X 1997.. X	D N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	30 032 21 270
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	87 538 358 865
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	39 972 15 809
332311	Prefabricated metal building and component manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 362 757 2 357 181
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	31 784 110 751
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X 1997.. X	648 741 129 483
33100035	Castings, rough and semifinished	2002.. X 1997.. X	907 18 438
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	238 046 217 350
33120009	Steel concrete reinforcing bars	2002.. X 1997.. X	707 7 360
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	293 572 N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	72 957 237 191
33120037	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, and structural shapes)	2002.. X 1997.. X	34 994 303 265
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X 1997.. X	86 835 N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002.. X 1997.. X	40 194 N
33100007	All other aluminum and aluminum-base alloy shapes and forms, including refinery shapes (excluding castings and forgings)	2002.. X 1997.. X	6 020 25 476
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	2 059 N N
00190027	Iron and steel scrap (excluding home scrap)	2002.. X 1997.. X	709 N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	14 944 N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	293 518 1 143 754
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	596 770 164 113
332312	Fabricated structural metal manufacturing		
00900001	Total materials	2002.. X 1997.. X	7 199 548 6 620 228
33290005	Fabricated metal pipe (excluding castings and forgings)	2002.. X 1997.. X	75 345 112 724
33291905	Fabricated metal valves and pipe fittings	2002.. X 1997.. X	25 963 26 242
33200039	All other fabricated metal products (excluding castings, forgings, fabricated metal pipe, bolts, valves, pipe fittings, nuts, screws, and other screw machine products)	2002.. X 1997.. X	329 196 650 309
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	187 286 67 326

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332312	Fabricated structural metal manufacturing—Con.		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	6 629
	.....1997..	X	8 181
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	5 923
	.....1997..	X	D
33210000	Forgings .....2002..	X	7 166
	.....1997..	X	N
33120057	Steel bars and bar shapes (excluding concrete reinforcing bars, castings, forgings, and fabricated metal products) .....2002..	X	343 779
	.....1997..	X	292 534
33120009	Steel concrete reinforcing bars .....2002..	X	403 911
	.....1997..	X	430 569
33120016	Steel sheet and strip (including tinplate) .....2002..	X	427 230
	.....1997..	X	N
33120079	Steel plate .....2002..	X	442 025
	.....1997..	X	487 601
33120041	Wide flange steel structural beams .....2002..	X	604 131
	.....1997..	X	763 503
33120047	All other steel structural shapes (excluding sheet pilings, castings, forgings, and fabricated steel products) .....2002..	X	341 764
	.....1997..	X	652 672
33120039	All other steel shapes and forms, including sheet pilings (excluding castings, forgings, and fabricated metal products) .....2002..	X	60 457
	.....1997..	X	275 221
33140003	Nonferrous refinery shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 283
	.....1997..	X	1 189
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products) .....2002..	X	30 825
	.....1997..	X	16 386
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 911
	.....1997..	X	7 364
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	35 896
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	18 850
	.....1997..	X	16 389
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 211
	.....1997..	X	38 275
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	111 063
	.....1997..	X	N
33399203	Welding electrodes .....2002..	X	37 068
	.....1997..	X	59 103
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	84 250
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 008 756
	.....1997..	X	D
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	2 600 630
	.....1997..	X	1 128 007
332313	Plate work manufacturing		
00900001	Total materials .....2002..	X	1 212 980
	.....1997..	X	1 055 418
33290005	Fabricated metal pipe (excluding castings and forgings) .....2002..	X	6 114
	.....1997..	X	11 712
33291905	Fabricated metal valves and pipe fittings .....2002..	X	2 605
	.....1997..	X	6 133
33200039	All other fabricated metal products (excluding castings, forgings, fabricated metal pipe, bolts, valves, pipe fittings, nuts, screws, and other screw machine products) .....2002..	X	55 495
	.....1997..	X	99 311
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	27 936
	.....1997..	X	13 558
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	1 243
	.....1997..	N	N
33210000	Forgings .....2002..	X	4 373
	.....1997..	N	N
33120057	Steel bars and bar shapes (excluding concrete reinforcing bars, castings, forgings, and fabricated metal products) .....2002..	X	16 324
	.....1997..	X	80 796
33120009	Steel concrete reinforcing bars .....2002..	X	D
	.....1997..	X	1 498
33120016	Steel sheet and strip (including tinplate) .....2002..	X	94 154
	.....1997..	N	N
33120079	Steel plate .....2002..	X	82 881
	.....1997..	X	148 190
33120041	Wide flange steel structural beams .....2002..	X	4 184
	.....1997..	X	11 654
33120047	All other steel structural shapes (excluding sheet pilings, castings, forgings, and fabricated steel products) .....2002..	X	12 953
	.....1997..	X	35 370
33120039	All other steel shapes and forms, including sheet pilings (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	58 806
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 549
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332313	Plate work manufacturing—Con.		
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	355
	2002..	X	509
	1997..		
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	17 311
	2002..	X	N
	1997..		
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 438
	2002..	X	3 311
	1997..		
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 851
	2002..	X	9 642
	1997..		
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	8 794
	2002..	N	N
	1997..		
33399203	Welding electrodes	X	7 538
	2002..	X	10 411
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	304 949
	2002..	X	319 160
	1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	453 364
	2002..	X	244 823
	1997..		
332321	Metal window and door manufacturing		
00900001	Total materials	X	5 225 037
	2002..	X	4 960 903
	1997..		
32721101	Flat glass (plate, float, and sheet)	X	277 568
	2002..	X	165 862
	1997..		
33251009	Builders' hardware (including door locks, locksets, lock trim, screen hardware, etc.)	X	230 972
	2002..	X	241 328
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	74 835
	2002..	X	97 114
	1997..		
33200034	Other fabricated metal products (excluding castings, forgings, bolts, nuts, screws, washers, rivets, and other screw machine products)	X	210 928
	2002..	X	N
	1997..		
33151001	Iron and steel castings (rough and semifinished)	X	109 881
	2002..	X	16 713
	1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	26 217
	2002..	X	31 611
	1997..		
33210000	Forgings	X	1 002
	2002..	X	N
	1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	36 847
	2002..	X	82 962
	1997..		
33120016	Steel sheet and strip (including tinplate)	X	841 625
	2002..	X	N
	1997..		
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	71 688
	2002..	X	51 359
	1997..		
33120025	Steel wire and wire products	X	24 657
	2002..	X	32 501
	1997..		
33120087	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	149 491
	2002..	X	291 688
	1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	629
	2002..	X	2 516
	1997..		
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	80 656
	2002..	X	N
	1997..		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	68 935
	2002..	X	N
	1997..		
33100007	All other aluminum and aluminum-base alloy shapes and forms, including refinery shapes (excluding castings and forgings)	X	402 847
	2002..	X	331 384
	1997..		
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	27 739
	2002..	X	N
	1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	109 459
	2002..	X	75 682
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	1 906 738
	2002..	X	N
	1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	572 323
	2002..	X	543 789
	1997..		
332322	Sheet metal work manufacturing		
00900001	Total materials	X	5 888 940
	2002..	X	5 866 813
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	120 241
	2002..	X	178 273
	1997..		
33200095	Other fabricated metal products (excluding castings and forgings)	X	547 418
	2002..	X	456 514
	1997..		
33151001	Iron and steel castings (rough and semifinished)	X	66 055
	2002..	X	33 953
	1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332322	Sheet metal work manufacturing—Con.		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	21 135
	.....2002..	X	41 342
	.....1997..	X	D
33210000	Forgings	X	N
	.....2002..	X	
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	36 685
	.....2002..	X	88 424
	.....1997..	X	704
33120009	Steel concrete reinforcing bars	X	2 861
	.....2002..	X	1 237 904
	.....1997..	X	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	117 494
	.....2002..	X	113 874
	.....1997..	X	
33120037	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, and structural shapes)	X	N
	.....2002..	X	139 128
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	30 317
	.....2002..	X	18 517
	.....1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	473 523
	.....2002..	X	N
	.....1997..	X	
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	60 063
	.....2002..	X	N
	.....1997..	X	
33100007	All other aluminum and aluminum-base alloy shapes and forms, including refinery shapes (excluding castings and forgings)	X	71 879
	.....2002..	X	151 023
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	43 471
	.....2002..	X	N
	.....1997..	X	
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap)	X	16 038
	.....2002..	X	39 712
	.....1997..	X	
32721101	Flat glass (plate, float, and sheet)	X	D
	.....2002..	X	16 787
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	67 163
	.....2002..	X	90 285
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	53 888
	.....2002..	X	N
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	1 154 182
	.....2002..	X	N
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 418 089
	.....2002..	X	1 222 666
	.....1997..	X	
332323	Ornamental and architectural metal work manufacturing		
00900001	Total materials	X	1 900 787
	.....2002..	X	1 709 743
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	43 178
	.....2002..	X	39 868
	.....1997..	X	
33200095	Other fabricated metal products (excluding castings and forgings)	X	124 655
	.....2002..	X	109 500
	.....1997..	X	24 045
33100035	Castings, rough and semifinished	X	29 628
	.....2002..	X	
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	117 495
	.....2002..	X	127 666
	.....1997..	X	
33120009	Steel concrete reinforcing bars	X	1 534
	.....2002..	X	9 827
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	201 418
	.....2002..	X	N
	.....1997..	X	
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	86 142
	.....2002..	X	132 961
	.....1997..	X	
33120038	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bar, bar shapes, plate, concrete, reinforcing bars, structural shapes, and sheet)	X	159 717
	.....2002..	X	N
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	9 893
	.....2002..	X	D
	.....1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	46 527
	.....2002..	X	N
	.....1997..	X	
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	76 605
	.....2002..	X	N
	.....1997..	X	
33100007	All other aluminum and aluminum-base alloy shapes and forms, including refinery shapes (excluding castings and forgings)	X	31 700
	.....2002..	X	12 644
	.....1997..	X	
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	32 016
	.....2002..	X	N
	.....1997..	X	
00190027	Iron and steel scrap (excluding home scrap)	X	20 367
	.....2002..	X	N
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332323	Ornamental and architectural metal work manufacturing—Con.		
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	29 817
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	450 347
		1997.. X	D
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	445 331
		1997.. X	393 634
332410	Power boiler and heat exchanger manufacturing		
00900001	Total materials	2002.. X	1 303 245
		1997.. X	1 569 864
33290005	Fabricated metal pipe (excluding castings and forgings)	2002.. X	50 733
		1997.. X	94 267
33291905	Fabricated metal valves and pipe fittings	2002.. X	15 890
		1997.. X	24 901
332000A3	All other miscellaneous fabricated metal parts specially designed for steel power boilers (excluding castings and forgings)	2002.. X	31 161
		1997.. X	31 113
33200042	All other fabricated metal products (excluding castings, forgings, fabricated metal pipe, valves, pipe fittings, and all other parts specially designed for steel power boilers)	2002.. X	153 798
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	23 214
		1997.. X	35 138
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	6 085
		1997.. X	N
33210000	Forgings	2002.. X	26 869
		1997.. X	N
33120057	Steel bars and bar shapes (excluding concrete reinforcing bars, castings, forgings, and fabricated metal products)	2002.. X	18 068
		1997.. X	31 076
33120016	Steel sheet and strip (including tinplate)	2002.. X	33 753
		1997.. X	N
33120079	Steel plate	2002.. X	137 409
		1997.. X	114 581
33120041	Wide flange steel structural beams	2002.. X	2 384
		1997.. X	16 205
33120047	All other steel structural shapes (excluding sheet piling, castings, forgings, and fabricated steel products)	2002.. X	1 806
		1997.. X	20 335
33120039	All other steel shapes and forms, including sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X	5 680
		1997.. X	30 653
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002.. X	45 897
		1997.. X	63 896
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	14 646
		1997.. X	14 860
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	31 471
		1997.. X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	9 571
		1997.. X	39 488
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	22 433
		1997.. X	12 971
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	11 561
		1997.. X	N
33399203	Welding electrodes	2002.. X	7 203
		1997.. X	41 477
00970099	All other materials and components, parts, containers, and supplies	2002.. X	214 249
		1997.. X	629 612
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	439 364
		1997.. X	369 291
332420	Metal tank (heavy gauge) manufacturing		
00900001	Total materials	2002.. X	1 809 284
		1997.. X	2 055 101
33290005	Fabricated metal pipe (excluding castings and forgings)	2002.. X	86 546
		1997.. X	107 354
33291905	Fabricated metal valves and pipe fittings	2002.. X	143 435
		1997.. X	145 405
332000A3	All other miscellaneous fabricated metal parts specially designed for steel power boilers (excluding castings and forgings)	2002.. X	17 050
		1997.. X	16 867
33200042	All other fabricated metal products (excluding castings, forgings, fabricated metal pipe, valves, pipe fittings, and all other parts specially designed for steel power boilers)	2002.. X	82 520
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	17 831
		1997.. X	17 777
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	D
		1997.. X	N
33210000	Forgings	2002.. X	26 361
		1997.. X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332420	Metal tank (heavy gauge) manufacturing—Con.		
33120057	Steel bars and bar shapes (excluding concrete reinforcing bars, castings, forgings, and fabricated metal products)	X	53 913
	.....2002..	X	53 227
	.....1997..	X	143 037
33120016	Steel sheet and strip (including tinplate)	X	N
	.....2002..	X	267 676
	.....1997..	X	259 989
33120079	Steel plate	X	14 240
	.....2002..	X	15 050
	.....1997..	X	
33120041	Wide flange steel structural beams	X	41 124
	.....2002..	X	45 540
	.....1997..	X	
33120039	All other steel shapes and forms, including sheet pilings (excluding castings, forgings, and fabricated metal products)	X	57 800
	.....2002..	X	203 193
	.....1997..	X	
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	X	2 559
	.....2002..	X	D
	.....1997..	X	
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	1 693
	.....1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	33 013
	.....2002..	X	N
	.....1997..	X	
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 111
	.....2002..	X	36 021
	.....1997..	X	
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	28 074
	.....2002..	X	13 626
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	24 484
	.....2002..	X	N
	.....1997..	X	
33399203	Welding electrodes	X	12 071
	.....2002..	X	27 505
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	304 558
	.....2002..	X	973 509
	.....1997..	X	429 394
00971000	Materials, ingredients, containers, and supplies, nsk	X	135 583
	.....2002..	X	
	.....1997..	X	
332431	Metal can manufacturing		
00900001	Total materials	X	6 989 943
	.....2002..	X	8 046 981
	.....1997..	X	1 974 307
33243105	Lids, ends, and parts for metal cans	X	1 118 150
	.....2002..	X	D
	.....1997..	X	D
33200035	All other fabricated metal products (excluding castings and forgings)	X	D
	.....2002..	X	D
	.....1997..	X	N
33210000	Forgings	X	437 182
	.....2002..	X	1 592 997
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	57 842
	.....2002..	X	N
	.....1997..	X	
33120099	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, and tin mill products)	X	D
	.....2002..	X	D
	.....1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	1 677 467
	.....2002..	X	N
	.....1997..	X	
33100050	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..	X	
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	128 599
	.....2002..	X	N
	.....1997..	X	
32552001	Adhesives and sealants	X	16 593
	.....2002..	X	34 714
	.....1997..	X	43 308
32591002	Printing inks	X	N
	.....2002..	X	18 148
	.....1997..	X	31 501
32500049	All other chemicals and allied products	X	31 661
	.....2002..	X	45 868
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	224 582
	.....2002..	X	4 970 459
	.....1997..	X	71 958
00970099	All other materials and components, parts, containers, and supplies	X	137 993
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	
332439	Other metal container manufacturing		
00900001	Total materials	X	1 449 539
	.....2002..	X	1 116 556
	.....1997..	X	108 546
33243105	Lids, ends, and parts for metal cans	X	49 563
	.....2002..	X	111 065
	.....1997..	X	66 653
33200035	All other fabricated metal products (excluding castings and forgings)	X	D
	.....2002..	X	
	.....1997..	X	
33210000	Forgings	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332439	Other metal container manufacturing—Con.		
33120073	Steel sheet, strip, and tin mill products 1997..	X	N
	..... 2002..	X	437 375
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) 1997..	X	371 968
	..... 2002..	X	18 575
33120099	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, and tin mill products) 1997..	X	N
	..... 2002..	X	113 426
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing 1997..	X	87 250
	..... 2002..	X	76 376
33100050	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, and fabricated metal products) 2002..	X	N
	..... 1997..	X	59 955
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	N
	..... 1997..	X	D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product 2002..	X	N
	..... 1997..	X	83 108
32552001	Adhesives and sealants 2002..	X	N
	..... 1997..	X	2 706
32591002	Printing inks 2002..	X	1 957
	..... 1997..	X	4 809
32500049	All other chemicals and allied products 2002..	X	N
	..... 1997..	X	3 314
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	6 709
	..... 1997..	X	42 284
00970099	All other materials and components, parts, containers, and supplies 2002..	X	23 676
	..... 1997..	X	133 105
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	256 802
	..... 1997..	X	212 239
		X	251 978
332510	Hardware manufacturing		
00900001	Total materials 2002..	X	3 748 562
	..... 1997..	X	4 353 866
33251005	Metal hardware (including hinges, handles, locks, casters, etc.) 2002..	X	326 624
	..... 1997..	X	217 713
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	128 110
	..... 1997..	X	157 397
332000AC	Metal stampings 2002..	X	243 483
	..... 1997..	X	267 118
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.) 2002..	X	14 829
	..... 1997..	N	N
33200013	All other fabricated metal products (excluding forgings) 2002..	X	243 284
	..... 1997..	X	135 691
33151001	Iron and steel castings (rough and semifinished) 2002..	X	62 296
	..... 1997..	X	99 542
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) 2002..	X	55 886
	..... 1997..	X	39 124
33152500	Copper and copper-base alloy castings (rough and semifinished) 2002..	X	17 678
	..... 1997..	X	21 373
33152800	Zinc and zinc-base alloy castings (rough and semifinished) 2002..	X	88 940
	..... 1997..	X	92 403
33152007	All other nonferrous castings (rough and semifinished) 2002..	X	10 342
	..... 1997..	X	6 792
33210000	Forgings 2002..	X	25 953
	..... 1997..	X	N
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) 2002..	X	58 956
	..... 1997..	X	108 421
33120073	Steel sheet, strip, and tin mill products 2002..	X	292 280
	..... 1997..	X	517 887
33120025	Steel wire and wire products 2002..	X	39 956
	..... 1997..	X	102 904
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products) 2002..	X	78 539
	..... 1997..	X	197 827
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes) 2002..	X	20 423
	..... 1997..	X	46 750
33142133	Copper and copper-base alloy sheet, strip, and plate 2002..	X	10 291
	..... 1997..	X	69 899
33142113	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, rods, bars, mechanical wire, sheet, plate, and strip) 2002..	X	10 397
	..... 1997..	X	25 455
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing 2002..	X	16 448
	..... 1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) 2002..	X	22 917
	..... 1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) 2002..	X	54 656

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332510	Hardware manufacturing—Con.		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X	33 585
		2002.. X	25 144
		1997.. X	N
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	N
331000AA	Metal powders	2002.. X	31 503
		1997.. X	29 166
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X	11 799
		1997.. X	N
32610003	Plastics products, including film, sheet, rod, tube, and fabricated shapes (including parts, handles, grips, etc.)	2002.. X	127 561
		1997.. X	132 057
32600003	All other rubber and miscellaneous plastics products	2002.. X	14 477
		1997.. X	35 105
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	101 267
		1997.. X	96 553
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	43 019
		1997.. X	42 170
32720001	Glass and glass products	2002.. X	D
		1997.. X	4 535
33531207	Electric motors, generators, and parts	2002.. X	162 616
		1997.. X	344 726
00970099	All other materials and components, parts, containers, and supplies	2002.. X	874 619
		1997.. X	898 027
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	507 102
		1997.. X	631 646
332611	Spring (heavy gauge) manufacturing		
00900001	Total materials	2002.. X	277 517
		1997.. X	327 881
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	2 727
		1997.. X	10 762
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X	D
		1997.. X	3 788
33100035	Castings, rough and semifinished	2002.. X	D
		1997.. X	1 245
33210000	Forgings	2002.. X	D
		1997.. N	N
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	2002.. X	68 156
		1997.. X	106 784
33120016	Steel sheet and strip (including tinplate)	2002.. X	15 393
		1997.. X	N
33120025	Steel wire and wire products	2002.. X	82 130
		1997.. X	54 842
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	9 384
		1997.. X	25 079
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	1 289
00970099	All other materials and components, parts, containers, and supplies	2002.. X	28 386
		1997.. X	65 658
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	44 671
		1997.. X	58 434
332612	Spring (light gauge) manufacturing		
00900001	Total materials	2002.. X	775 057
		1997.. X	837 264
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	7 001
		1997.. X	37 381
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X	14 707
		1997.. X	18 657
33100035	Castings, rough and semifinished	2002.. X	D
		1997.. X	3 991
33210000	Forgings	2002.. X	D
		1997.. X	N
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	2002.. X	26 502
		1997.. X	36 320
33120016	Steel sheet and strip (including tinplate)	2002.. X	21 653
		1997.. X	N
33120025	Steel wire and wire products	2002.. X	461 572
		1997.. X	534 801
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	81 132
		1997.. X	117 258
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	8 066
		1997.. X	15 029
00970099	All other materials and components, parts, containers, and supplies	2002.. X	77 624
		1997.. X	73 827
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	75 239
		1997.. X	—

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332618	Other fabricated wire product manufacturing		
00900001	Total materials .....2002..	X	2 047 676
	.....1997..	X	2 115 078
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	14 471
	.....1997..	X	21 847
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	88 351
	.....1997..	X	58 220
33210000	Forgings .....2002..	X	9 293
	.....1997..	X	N
33100035	Castings, rough and semifinished.....2002..	X	2 220
	.....1997..	X	10 190
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	30 553
	.....1997..	X	50 269
33120016	Steel sheet and strip (including tinplate) .....2002..	X	59 256
	.....1997..	X	N
33120025	Steel wire and wire products .....2002..	X	594 488
	.....1997..	X	794 997
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	92 440
	.....1997..	X	140 631
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 613
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	52 670
	.....1997..	X	33 093
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	383 714
	.....1997..	X	607 465
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	706 607
	.....1997..	X	398 366
332710	Machine shops		
00900001	Total materials .....2002..	X	6 260 201
	.....1997..	X	6 265 488
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	103 028
	.....1997..	X	217 120
33200097	Other fabricated metal products (excluding forgings) .....2002..	X	474 318
	.....1997..	X	435 690
33210000	Forgings .....2002..	X	158 604
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	708 009
	.....1997..	X	603 266
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	220 658
	.....1997..	X	198 144
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	26 319
	.....1997..	X	55 420
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	385 884
	.....1997..	X	632 608
33120016	Steel sheet and strip (including tinplate) .....2002..	X	97 281
	.....1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 166
	.....1997..	X	39 402
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling) .....2002..	X	88 921
	.....1997..	X	99 635
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes) .....2002..	X	18 853
	.....1997..	X	47 727
33142113	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, rods, bars, mechanical wire, sheet, plate, and strip) .....2002..	X	38 700
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	109 531
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	135 891
	.....1997..	X	133 330
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	38 118
	.....1997..	X	N
33351503	Cutting tools for machine tools .....2002..	X	150 160
	.....1997..	X	301 761
00190090	Fluid power products .....2002..	X	43 189
	.....1997..	X	124 217
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 224 929
	.....1997..	X	1 272 612
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	2 224 642
1997..	X	2 104 556

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332721	Precision turned product manufacturing		
00900001	Total materials	X	2 074 393
	.....2002..	X	2 099 708
	.....1997..	X	108 749
33210000	Forgings	X	N
	.....2002..	X	
	.....1997..	X	
33200038	All other fabricated metal products (excluding castings, forgings, bolts, nuts, screws, washers, rivets, and other screw machine products)	X	79 285
	.....2002..	X	N
	.....1997..	X	
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	35 337
	.....2002..	X	N
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	110 897
	.....2002..	X	N
	.....1997..	X	
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	X	470 786
	.....2002..	X	435 578
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	24 566
	.....2002..	X	N
	.....1997..	X	
33120025	Steel wire and wire products	X	20 778
	.....2002..	X	21 586
	.....1997..	X	
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	20 447
	.....2002..	X	23 006
	.....1997..	X	
33142107	Copper and copper-base alloy rod, bar, and bar shapes (excluding castings, forgings, and fabricated metal products)	X	86 006
	.....2002..	X	177 516
	.....1997..	X	
33142113	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, rods, bars, mechanical wire, sheet, plate, and strip)	X	D
	.....2002..	X	N
	.....1997..	X	
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	67 574
	.....2002..	X	N
	.....1997..	X	
33100059	All other aluminum and aluminum-base alloy shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	X	27 735
	.....2002..	X	24 395
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	33 611
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	11 707
	.....2002..	X	10 372
	.....1997..	X	
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	X	D
	.....2002..	X	38 792
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	7 291
	.....2002..	X	8 029
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	55 410
	.....2002..	X	N
	.....1997..	X	
33351503	Cutting tools for machine tools	X	99 110
	.....2002..	X	N
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	216 032
	.....2002..	X	992 631
	.....1997..	X	596 391
00971000	Materials, ingredients, containers, and supplies, nsk	X	367 803
	.....2002..	X	
	.....1997..	X	
332722	Bolt, nut, screw, rivet, and washer manufacturing		
00900001	Total materials	X	2 400 957
	.....2002..	X	2 559 916
	.....1997..	X	
33200005	Fabricated metal products, including forgings	X	181 311
	.....2002..	X	158 418
	.....1997..	X	
33100035	Castings, rough and semifinished	X	2 540
	.....2002..	X	5 874
	.....1997..	X	
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	X	149 500
	.....2002..	X	215 552
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	75 152
	.....2002..	X	N
	.....1997..	X	
33120025	Steel wire and wire products	X	585 396
	.....2002..	X	854 999
	.....1997..	X	
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	150 095
	.....2002..	X	67 178
	.....1997..	X	
33142107	Copper and copper-base alloy rod, bar, and bar shapes (excluding castings, forgings, and fabricated metal products)	X	42 164
	.....2002..	X	24 676
	.....1997..	X	
33142113	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, rods, bars, mechanical wire, sheet, plate, and strip)	X	26 986
	.....2002..	X	N
	.....1997..	X	
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	D
	.....2002..	X	N
	.....1997..	X	
33100059	All other aluminum and aluminum-base alloy shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	X	25 843
	.....2002..	X	54 785
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	67 757
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	27 435
	.....2002..	X	33 327
	.....1997..	X	
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	X	D
	.....2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332722	Bolt, nut, screw, rivet, and washer manufacturing— Con.		
	1997..	X	172 960
00970099	All other materials and components, parts, containers, and supplies	2002..	X 488 300
	1997..	X	484 924
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 460 739
	1997..	X	487 223
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers		
00900001	Total materials	2002..	X 4 187 015
	1997..	X	3 922 493
33200005	Fabricated metal products, including forgings	2002..	X 314 042
	1997..	X	374 503
33100035	Castings, rough and semifinished	2002..	X D
	1997..	X	19 943
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 1 637 882
	1997..	X	1 512 224
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 63 683
	1997..	X	50 857
32521101	Plastics materials and resins	2002..	X 84 299
	1997..	X	78 941
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002..	X 475 064
	1997..	X	N
32599801	Foundry chemicals, metal treating compounds, and plating compounds	2002..	X 344 606
	1997..	X	259 463
32500067	Other chemicals and allied products (excluding plastics materials and resins, paints, varnishes and allied products, foundry chemicals, metal treating compounds, and plating compounds)	2002..	X 59 588
	1997..	X	45 313
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	2002..	X D
	1997..	X	2 901
00970099	All other materials and components, parts, containers, and supplies	2002..	X 560 645
	1997..	X	1 045 928
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 615 259
	1997..	X	532 420
332813	Electroplating, plating, polishing, anodizing, and coloring		
00900001	Total materials	2002..	X 1 419 657
	1997..	X	1 403 641
33200005	Fabricated metal products, including forgings	2002..	X 107 721
	1997..	X	151 866
33100035	Castings, rough and semifinished	2002..	X 2 094
	1997..	X	18 632
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 238 331
	1997..	X	152 249
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 27 356
	1997..	X	14 106
32521101	Plastics materials and resins	2002..	X 23 538
	1997..	X	38 733
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002..	X 18 874
	1997..	X	N
32599801	Foundry chemicals, metal treating compounds, and plating compounds	2002..	X 238 501
	1997..	X	281 251
32500067	Other chemicals and allied products (excluding plastics materials and resins, paints, varnishes and allied products, foundry chemicals, metal treating compounds, and plating compounds)	2002..	X 139 795
	1997..	X	111 904
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	2002..	X 26 557
	1997..	X	19 785
00970099	All other materials and components, parts, containers, and supplies	2002..	X 243 902
	1997..	X	228 855
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 352 988
	1997..	X	386 260
332911	Industrial valve manufacturing		
00900001	Total materials	2002..	X 3 063 782
	1997..	X	3 228 720
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X 175 455
	1997..	X	172 688
332000AC	Metal stampings	2002..	X 57 573
	1997..	X	58 343
33290003	Valves, fittings, and couplings purchased for further assembly (excluding forgings)	2002..	X 236 977
	1997..	X	257 919
33200029	Other fabricated metal products (excluding forgings, metal stampings, valves, fittings, couplings, bolts, nuts, screws, washers, rivets, and other screw machine products)	2002..	X 234 398
	1997..	X	209 557

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332911	Industrial valve manufacturing—Con.		
33151101	Iron castings (rough and semifinished)	X	239 846
	.....2002..	X	250 560
	.....1997..	X	374 380
33151009	Steel castings (rough and semifinished)	X	332 100
	.....2002..	X	
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	63 112
	.....2002..	X	62 072
	.....1997..	X	
33152500	Copper and copper-base alloy castings (rough and semifinished)	X	113 368
	.....2002..	X	116 472
	.....1997..	X	
33152009	Other nonferrous castings (rough and semifinished)	X	63 614
	.....2002..	X	53 048
	.....1997..	X	
33211101	Iron and steel forgings	X	89 319
	.....2002..	X	92 008
	.....1997..	X	
33211201	Nonferrous forgings	X	61 622
	.....2002..	X	59 620
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	137 346
	.....2002..	X	136 736
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	41 484
	.....2002..	X	N
	.....1997..	X	
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	55 875
	.....2002..	X	55 869
	.....1997..	X	
33141104	Copper and copper-base alloy refinery shapes (excluding castings, forgings, and fabricated metal products)	X	56 129
	.....2002..	X	N
	.....1997..	X	
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes)	X	113 319
	.....2002..	X	108 143
	.....1997..	X	
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	X	18 826
	.....2002..	X	18 039
	.....1997..	X	
33142145	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, refinery shaped rods, bars, mechanical wire, pipes, and tubes)	X	14 993
	.....2002..	X	16 662
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	45 662
	.....2002..	X	N
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	14 999
	.....2002..	X	N
	.....1997..	X	
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap)	X	38 680
	.....2002..	X	37 207
	.....1997..	X	
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	X	18 718
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	26 326
	.....2002..	X	24 439
	.....1997..	X	
32622003	Hydraulic and pneumatic hose (without fittings), rubber and plastics inner tube type, wire or textile reinforced	X	6 246
	.....2002..	X	6 405
	.....1997..	X	
32622005	Other rubber and plastics hose and belting	X	21 804
	.....2002..	X	9 055
	.....1997..	X	
33999103	Gaskets (all types), and packing and sealing devices	X	46 639
	.....2002..	X	64 656
	.....1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	38 993
	.....2002..	X	38 841
	.....1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	46 255
	.....2002..	X	47 541
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	262 702
	.....2002..	X	678 711
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	349 122
	.....2002..	X	322 029
	.....1997..	X	
332912	Fluid power valve and hose fitting manufacturing		
00900001	Total materials	X	2 084 390
	.....2002..	X	2 190 056
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	244 042
	.....2002..	X	280 670
	.....1997..	X	
332000AC	Metal stampings	X	15 765
	.....2002..	X	15 436
	.....1997..	X	
33290003	Valves, fittings, and couplings purchased for further assembly (excluding forgings)	X	265 324
	.....2002..	X	224 707
	.....1997..	X	
33200029	Other fabricated metal products (excluding forgings, metal stampings, valves, fittings, couplings, bolts, nuts, screws, washers, rivets, and other screw machine products)	X	159 257
	.....2002..	X	144 355
	.....1997..	X	
33151101	Iron castings (rough and semifinished)	X	69 719
	.....2002..	X	76 725
	.....1997..	X	
33151009	Steel castings (rough and semifinished)	X	12 590
	.....2002..	X	11 845
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	38 441
	.....2002..	X	56 154
	.....1997..	X	
33152500	Copper and copper-base alloy castings (rough and semifinished)	X	3 896
	.....2002..	X	4 667
	.....1997..	X	
33152009	Other nonferrous castings (rough and semifinished)	X	37 589
	.....2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332912	Fluid power valve and hose fitting manufacturing— Con.		
	1997..	X	31 809
33211101	Iron and steel forgings	2002..	X 34 098
	1997..	X	43 418
33211201	Nonferrous forgings	2002..	X 7 635
	1997..	X	41 982
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002..	X 218 435
	1997..	X	253 348
33120016	Steel sheet and strip (including tinplate)	2002..	X 45 897
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 42 785
	1997..	X	40 213
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes)	2002..	X 111 992
	1997..	X	D
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002..	X 28 262
	1997..	X	10 795
33142145	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, refinery shaped rods, bars, mechanical wire, pipes, and tubes)	2002..	X 21 185
	1997..	X	33 286
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 106 685
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper- base alloy castings, forgings, and fabricated metal products)	2002..	X 4 787
	1997..	X	N
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap)	2002..	X D
	1997..	X	15 662
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	2002..	X D
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	X 17 375
	1997..	X	19 955
32622003	Hydraulic and pneumatic hose (without fittings), rubber and plastics inner tube type, wire or textile reinforced	2002..	X 74 478
	1997..	X	81 518
32622005	Other rubber and plastics hose and belting	2002..	X 718
	1997..	X	718
33999103	Gaskets (all types), and packing and sealing devices	2002..	X 15 204
	1997..	X	14 731
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002..	X 14 496
	1997..	X	9 491
32610011	Fabricated plastics products (excluding gaskets)	2002..	X 58 060
	1997..	X	20 473
00970099	All other materials and components, parts, containers, and supplies	2002..	X 285 809
	1997..	X	519 756
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 131 210
	1997..	X	127 947
332913	Plumbing fixture fitting and trim manufacturing		
00900001	Total materials	2002..	X 1 412 890
	1997..	X	1 589 861
332000AC	Metal stampings	2002..	X 22 295
	1997..	X	123 663
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings)	2002..	X 98 850
	1997..	X	115 768
33151001	Iron and steel castings (rough and semifinished)	2002..	X 9 145
	1997..	X	14 166
33152500	Copper and copper-base alloy castings (rough and semifinished)	2002..	X 69 852
	1997..	X	91 803
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002..	X 18 737
	1997..	X	N
33210000	Forgings	2002..	X 23 889
	1997..	X	N
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X D
	1997..	X	58 516
33141104	Copper and copper-base alloy refinery shapes (excluding castings, forgings, and fabricated metal products)	2002..	X D
	1997..	X	N
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes)	2002..	X 45 335
	1997..	X	230 669
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002..	X 16 848
	1997..	X	69 818
33142145	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, refinery shaped rods, bars, mechanical wire, pipes, and tubes)	2002..	X D
	1997..	X	31 231
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 43 419
	1997..	N	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332913	Plumbing fixture fitting and trim manufacturing—Con.		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	10 200
	.....1997..	X	39 676
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	72 093
	.....1997..	X	206 852
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	29 204
	.....1997..	X	75 160
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	609 550
	.....1997..	X	486 667
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	258 341
	.....1997..	X	45 872
332919	Other metal valve and pipe fitting manufacturing		
00900001	Total materials .....2002..	X	976 671
	.....1997..	X	986 123
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	16 612
	.....1997..	X	23 900
332000AC	Metal stampings .....2002..	X	3 802
	.....1997..	X	4 811
33290003	Valves, fittings, and couplings purchased for further assembly (excluding forgings) .....2002..	X	92 163
	.....1997..	X	94 558
33200029	Other fabricated metal products (excluding forgings, metal stampings, valves, fittings, couplings, bolts, nuts, screws, washers, rivets, and other screw machine products) .....2002..	X	21 966
	.....1997..	X	23 775
33151101	Iron castings (rough and semifinished) .....2002..	X	32 496
	.....1997..	X	34 779
33151009	Steel castings (rough and semifinished) .....2002..	X	23 935
	.....1997..	X	38 886
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	17 875
	.....1997..	X	7 261
33152500	Copper and copper-base alloy castings (rough and semifinished) .....2002..	X	35 683
	.....1997..	X	37 229
33152009	Other nonferrous castings (rough and semifinished) .....2002..	X	3 971
	.....1997..	X	3 956
33211101	Iron and steel forgings .....2002..	X	47 156
	.....1997..	X	58 917
33211201	Nonferrous forgings .....2002..	X	7 959
	.....1997..	X	10 332
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	32 532
	.....1997..	X	34 398
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	33 652
	.....1997..	X	18 100
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes) .....2002..	X	57 003
	.....1997..	X	46 745
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products) .....2002..	X	22 951
	.....1997..	X	27 797
33142145	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, refinery shaped rods, bars, mechanical wire, pipes, and tubes) .....2002..	X	15 528
	.....1997..	X	17 371
33100084	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap) .....2002..	X	36 526
	.....1997..	X	D
33531225	Fractional horsepower electric motors and generators (less than 1 hp) .....2002..	X	D
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	11 803
	.....1997..	X	10 116
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	15 545
	.....1997..	X	16 493
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	162 782
	.....1997..	X	246 773
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	275 628
	.....1997..	X	215 110
332991	Ball and roller bearing manufacturing		
00900001	Total materials .....2002..	X	1 969 399
	.....1997..	X	2 108 792
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	28 311
	.....1997..	X	18 477
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	35 964
	.....1997..	X	4 630
33211103	Cold iron and steel forgings .....2002..	X	86 749
	.....1997..	X	25 677
33211111	Other iron and steel forgings .....2002..	X	145 104
	.....1997..	X	239 026

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332991	Ball and roller bearing manufacturing—Con.		
33151001	Iron and steel castings (rough and semifinished)2002..	X	79 872
	1997..	X	42 399
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)2002..	X	757
	1997..	X	3 149
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)2002..	X	164 674
	1997..	X	186 836
33120016	Steel sheet and strip (including tinplate)2002..	X	99 172
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	150 276
	1997..	X	190 096
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	4 490
	1997..	X	N
33299101	Ball and roller bearings (mounted or unmounted)2002..	X	D
	1997..	X	N
33299107	Balls, rollers, cages, collars, races, and other antifriction bearing components and parts2002..	X	551 641
	1997..	X	601 417
33361305	Clutches, couplings, shafts, sprockets, and other mechanical power transmission equipment2002..	X	3 495
	1997..	X	2 761
33531207	Electric motors, generators, and parts2002..	X	13 317
	1997..	X	15 085
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	12 488
	1997..	X	19 834
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds2002..	X	32 453
	1997..	X	38 049
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)2002..	X	16 063
	1997..	X	4 093
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)2002..	X	D
	1997..	X	37 681
00970099	All other materials and components, parts, containers, and supplies2002..	X	313 489
	1997..	X	609 036
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	123 569
	1997..	X	70 546
332992	Small arms ammunition manufacturing		
00900001	Total materials2002..	X	354 450
	1997..	X	348 470
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products2002..	X	293
	1997..	X	D
33200095	Other fabricated metal products (excluding castings and forgings)2002..	X	61 610
	1997..	X	D
33151001	Iron and steel castings (rough and semifinished)2002..	X	D
	1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)2002..	X	D
	1997..	X	1 705
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)2002..	X	23 455
	1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	11 154
	1997..	X	18 621
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	48 757
	1997..	X	57 250
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	D
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)2002..	X	13 560
	1997..	X	N
32592011	Smokeless powder2002..	X	51 674
	1997..	X	55 551
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.2002..	X	15 131
	1997..	X	7 844
32500065	Other chemicals and allied products2002..	X	9 897
	1997..	X	D
32100019	Rough and dressed lumber2002..	X	D
	1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard2002..	X	22 840
	1997..	X	21 128
32610011	Fabricated plastics products (excluding gaskets)2002..	X	D
	1997..	X	11 831
33351501	Machine tool accessories, including cutting tools2002..	X	7 177
	1997..	X	D
00190055	Electronic, hydraulic, and mechanical subassemblies2002..	X	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies2002..	X	53 059
	1997..	X	45 884
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	17 228
	1997..	X	11 442

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332993	Ammunition (except small arms) manufacturing		
00900001	Total materials .....2002..	X	274 800
	.....1997..	X	561 857
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	D
	.....1997..	X	13 108
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	86 621
	.....1997..	X	92 059
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	8 660
	.....1997..	X	3 520
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	3 990
	.....1997..	X	2 792
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	2 957
	.....1997..	X	4 070
33211101	Iron and steel forgings .....2002..	X	13 931
	.....1997..	X	3 131
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 347
	.....1997..	X	12 971
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	4 270
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 727
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32592011	Smokeless powder .....2002..	X	D
	.....1997..	X	D
32500065	Other chemicals and allied products .....2002..	X	D
	.....1997..	X	2 554
32100019	Rough and dressed lumber .....2002..	X	D
	.....1997..	X	1 149
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	1 016
	.....1997..	X	2 291
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	2 571
	.....1997..	X	6 043
33351501	Machine tool accessories, including cutting tools .....2002..	X	6 326
	.....1997..	X	2 802
00190055	Electronic, hydraulic, and mechanical subassemblies .....2002..	X	40 761
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	26 135
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	41 759
	.....1997..	X	38 634
332994	Small arms manufacturing		
00900001	Total materials .....2002..	X	342 062
	.....1997..	X	301 028
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	13 323
	.....1997..	X	19 125
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	92 721
	.....1997..	X	64 100
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	33 984
	.....1997..	X	18 709
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	5 475
	.....1997..	X	6 135
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	6 365
	.....1997..	X	5 602
33211101	Iron and steel forgings .....2002..	X	13 826
	.....1997..	X	9 045
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	46 950
	.....1997..	X	51 590
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 907
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32592011	Smokeless powder .....2002..	X	4
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	X	838
32500065	Other chemicals and allied products .....2002..	X	1 049
	.....1997..	X	1 148
32100019	Rough and dressed lumber .....2002..	X	12 207
	.....1997..	X	7 752

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332994	Small arms manufacturing—Con.		
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	7 890
	.....1997..	X	9 158
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	17 429
	.....1997..	X	13 290
33351501	Machine tool accessories, including cutting tools .....2002..	X	10 195
	.....1997..	X	6 420
00190055	Electronic, hydraulic, and mechanical subassemblies .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	48 679
	.....1997..	X	50 725
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	24 219
	.....1997..	X	32 662
332995	Other ordnance and accessories manufacturing		
00900001	Total materials .....2002..	X	414 088
	.....1997..	X	323 817
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	8 301
	.....1997..	X	7 459
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	111 887
	.....1997..	X	90 881
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	4 475
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	1 332
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	1 431
33211101	Iron and steel forgings .....2002..	X	D
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 930
	.....1997..	X	5 048
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	11 239
	.....1997..	X	N
32592011	Smokeless powder .....2002..	X	D
	.....1997..	X	D
32500065	Other chemicals and allied products .....2002..	X	D
	.....1997..	X	839
32100019	Rough and dressed lumber .....2002..	X	D
	.....1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	1 073
	.....1997..	X	514
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	2 248
	.....1997..	X	2 726
33351501	Machine tool accessories, including cutting tools .....2002..	X	D
	.....1997..	X	2 053
00190055	Electronic, hydraulic, and mechanical subassemblies .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	55 545
	.....1997..	X	50 031
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	9 587
	.....1997..	X	5 551
332996	Fabricated pipe and pipe fitting manufacturing		
00900001	Total materials .....2002..	X	1 503 416
	.....1997..	X	1 785 401
33291907	Metal fittings, flanges, and unions for piping systems (excluding forgings) .....2002..	X	160 467
	.....1997..	X	155 537
332000AC	Metal stampings .....2002..	X	2 633
	.....1997..	X	3 916
33200096	Other fabricated metal products (excluding forgings, metal stampings, metal fittings, flanges, and unions for piping systems) .....2002..	X	163 271
	.....1997..	X	N
33210000	Forgings .....2002..	X	41 464
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	62 039
	.....1997..	X	45 206
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	1 481
	.....1997..	X	3 351
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	2 356
	.....1997..	X	5 763
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	48 678
	.....1997..	X	21 736
33120016	Steel sheet and strip (including tinplate) .....2002..	X	19 371
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332996	Fabricated pipe and pipe fitting manufacturing—Con.		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X 1997.. X	4 038 N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	6 306 D
33120021	Steel pipes (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	328 371 560 103
33120029	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	17 361 76 830
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	24 700 56 162
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 6 919
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X 1997.. X	1 848 N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002.. S 1997.. X	6 826 N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002.. X 1997.. X	D 5 087
331000AA	Metal powders	2002.. X 1997.. X	D D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	5 809 15 081
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	181 807 500 421
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	420 118 275 373
332997	Industrial pattern manufacturing		
00900001	Total materials	2002.. X 1997.. X	90 568 106 855
33200057	Fabricated metal products (excluding forgings)	2002.. X 1997.. X	6 551 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	8 574 10 641
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	5 741 8 058
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	2 527 4 294
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	2 732 N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 764
32100019	Rough and dressed lumber	2002.. X 1997.. X	2 547 7 654
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	2 269 1 934
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	38 402 43 165
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	17 823 29 481
332998	Enameled iron and metal sanitary ware manufacturing		
00900001	Total materials	2002.. X 1997.. X	430 411 518 105
332000AC	Metal stampings	2002.. X 1997.. X	15 780 19 774
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings)	2002.. X 1997.. X	D 9 754
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	46 493 20 644
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D N
33210000	Forgings	2002.. X 1997.. N	D N
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	97 208 80 172
33141104	Copper and copper-base alloy refinery shapes (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. N	D N
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes)	2002.. X	D

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332998	Enameled iron and metal sanitary ware manufacturing—Con.		
	1997..	X	D
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002..	D
	1997..	X	3 177
33142145	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, refinery shaped rods, bars, mechanical wire, pipes, and tubes)	2002..	D
	1997..	X	971
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	27 204
	1997..	X	43 649
32610011	Fabricated plastics products (excluding gaskets)	2002..	15 351
	1997..	X	10 893
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	30 631
	1997..	X	47 912
00970099	All other materials and components, parts, containers, and supplies	2002..	142 830
	1997..	X	212 015
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	S
	1997..	X	48 829
332999	All other miscellaneous fabricated metal product manufacturing		
00900001	Total materials	2002..	4 604 540
	1997..	X	4 075 843
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	48 223
	1997..	X	20 274
33291907	Metal fittings, flanges, and unions for piping systems (excluding forgings)	2002..	8 448
	1997..	X	23 758
332000AC	Metal stampings	2002..	79 396
	1997..	X	66 247
33200098	Other fabricated metal products (excluding forgings, metal stampings, metal fittings, flanges, unions, bolts, nuts, screws, rivets, and washers)	2002..	363 409
	1997..	X	N
33210000	Forgings	2002..	8 449
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	2002..	57 949
	1997..	X	62 893
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002..	45 481
	1997..	X	21 458
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002..	7 568
	1997..	X	12 013
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)	2002..	115 573
	1997..	X	63 305
33120016	Steel sheet and strip (including tinplate)	2002..	527 286
	1997..	X	N
33120079	Steel plate	2002..	59 010
	1997..	X	79 049
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	2002..	20 658
	1997..	X	26 990
33120021	Steel pipes (excluding castings, forgings, and fabricated metal products)	2002..	16 168
	1997..	X	42 121
33120032	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	100 790
	1997..	X	N
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	2002..	D
	1997..	X	14 729
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	7 978
	1997..	X	43 704
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002..	161 855
	1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002..	113 745
	1997..	X	N
33131506	Aluminum and aluminum-base alloy foil, plain	2002..	182 260
	1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002..	43 244
	1997..	X	34 165
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002..	73 888
	1997..	X	N
331000AA	Metal powders	2002..	12 363
	1997..	X	18 013
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	92 244
	1997..	X	27 509
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	43 952
	1997..	X	29 156

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
332999	All other miscellaneous fabricated metal product manufacturing—Con.		
21239017	Natural abrasive materials, excluding diamonds	X	D
	2002..	X	34 929
	1997..	X	6 352
32552002	Glues and adhesives	X	N
	2002..	X	
	1997..	X	
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard)	X	59 529
	2002..	X	201 108
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	848 252
	2002..	X	2 404 257
	1997..	X	1 478 543
00971000	Materials, ingredients, containers, and supplies, nsk	X	850 165
	2002..	X	
	1997..	X	
333111	Farm machinery and equipment manufacturing		
00900001	Total materials	X	7 009 219
	2002..	X	7 760 781
	1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	179 135
	2002..	X	412 901
	1997..	X	
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	102 869
	2002..	X	128 953
	1997..	X	
33399901	Fluid power filters (hydraulic and pneumatic)	X	26 230
	2002..	X	16 916
	1997..	X	
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	85 180
	2002..	X	92 240
	1997..	X	
33291207	Fluid power valves (hydraulic and pneumatic)	X	88 036
	2002..	X	134 915
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	153 097
	2002..	X	172 389
	1997..	X	
332000AC	Metal stampings	X	225 032
	2002..	X	206 096
	1997..	X	
33200041	All other fabricated metal products (excluding forgings)	X	228 120
	2002..	X	371 899
	1997..	X	
33211101	Iron and steel forgings	X	63 758
	2002..	X	111 386
	1997..	X	
33211201	Nonferrous forgings	X	D
	2002..	X	3 579
	1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	254 141
	2002..	X	583 264
	1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	27 510
	2002..	X	50 190
	1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	3 430
	2002..	X	4 941
	1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	190 017
	2002..	X	507 763
	1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	218 206
	2002..	X	N
	1997..	X	
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	35 374
	2002..	X	125 770
	1997..	X	
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	365 364
	2002..	X	131 471
	1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	6 193
	2002..	X	18 882
	1997..	X	
331000AA	Metal powders	X	D
	2002..	X	4 685
	1997..	X	
33361803	Diesel engines and parts specially designed for diesel engines	X	325 589
	2002..	X	N
	1997..	X	
33631200	Gasoline engines and parts specially designed for gasoline engines	X	139 770
	2002..	X	N
	1997..	X	
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	93 878
	2002..	X	164 887
	1997..	X	
33531201	Electric motors and generators	X	33 567
	2002..	X	82 558
	1997..	X	
33299105	Ball bearings (mounted or unmounted)	X	49 134
	2002..	X	76 395
	1997..	X	
33299103	Roller bearings (mounted or unmounted)	X	29 356
	2002..	X	62 793
	1997..	X	
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	73 434
	2002..	X	331 118
	1997..	X	
32621003	Pneumatic tires and inner tubes	X	165 997
	2002..	X	N
	1997..	X	
33639909	Wheels, motor vehicle	X	31 145
	2002..	X	N
	1997..	X	
33633000	Shocks, struts, and other suspension equipment and parts	X	29 285
	2002..	X	N
	1997..	X	
33635003	Transmissions and parts	X	267 057
	2002..	X	N
	1997..	X	
32622001	Rubber and plastics hose and belting	X	76 696
	2002..	X	114 305
	1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	128 406
	2002..	X	133 451
	1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333111	Farm machinery and equipment manufacturing—Con.		
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	60 522
	.....2002..	X	N
	.....1997..	X	86 890
33311100	Cabs purchased for installation on farm machinery	X	24 217
	.....2002..	X	
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	2 619 480
	.....2002..	X	3 007 504
	.....1997..	X	541 712
00971000	Materials, ingredients, containers, and supplies, nsk	X	685 313
	.....2002..	X	
	.....1997..	X	
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing		
00900001	Total materials	X	4 167 067
	.....2002..	X	4 194 645
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	99 110
	.....2002..	X	158 005
	.....1997..	X	
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	47 297
	.....2002..	X	41 474
	.....1997..	X	6 451
33399901	Fluid power filters (hydraulic and pneumatic)	X	D
	.....2002..	X	
	.....1997..	X	
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	11 495
	.....2002..	X	20 580
	.....1997..	X	
33291207	Fluid power valves (hydraulic and pneumatic)	X	10 766
	.....2002..	X	21 269
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	97 432
	.....2002..	X	159 490
	.....1997..	X	
332000AC	Metal stampings	X	100 596
	.....2002..	X	115 934
	.....1997..	X	
33200041	All other fabricated metal products (excluding forgings)	X	99 318
	.....2002..	X	137 602
	.....1997..	X	
33211101	Iron and steel forgings	X	21 118
	.....2002..	X	69 154
	.....1997..	X	
33211201	Nonferrous forgings	X	472
	.....2002..	X	D
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	36 036
	.....2002..	X	62 865
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	77 142
	.....2002..	X	99 366
	.....1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	D
	.....2002..	X	D
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	18 856
	.....2002..	X	47 962
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	125 894
	.....2002..	X	N
	.....1997..	X	
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	32 799
	.....1997..	X	
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	38 684
	.....2002..	X	29 266
	.....1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	479
	.....2002..	X	D
	.....1997..	X	
331000AA	Metal powders	X	27 303
	.....2002..	X	37 832
	.....1997..	X	
33361803	Diesel engines and parts specially designed for diesel engines	X	4 489
	.....2002..	X	N
	.....1997..	X	
33631200	Gasoline engines and parts specially designed for gasoline engines	X	1 154 700
	.....2002..	X	N
	.....1997..	X	
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	75 496
	.....2002..	X	67 762
	.....1997..	X	4 660
33531201	Electric motors and generators	X	16 259
	.....2002..	X	25 813
	.....1997..	X	25 571
33299105	Ball bearings (mounted or unmounted)	X	
	.....2002..	X	
	.....1997..	X	
33299103	Roller bearings (mounted or unmounted)	X	10 037
	.....2002..	X	13 611
	.....1997..	X	
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	26 120
	.....2002..	X	165 742
	.....1997..	X	
32621003	Pneumatic tires and inner tubes	X	89 403
	.....2002..	X	N
	.....1997..	X	
33639909	Wheels, motor vehicle	X	38 555
	.....2002..	X	N
	.....1997..	X	
33633000	Shocks, struts, and other suspension equipment and parts	X	D
	.....2002..	X	N
	.....1997..	X	
33635003	Transmissions and parts	X	90 479
	.....2002..	X	N
	.....1997..	X	
32622001	Rubber and plastics hose and belting	X	35 560
	.....2002..	X	57 616
	.....1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	196 967
	.....2002..	X	240 409
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	66 851
	.....2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing—Con.		
	1997..	X	N
33311100	Cabs purchased for installation on farm machinery	2002..	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	2002..	1 076 569
	1997..	X	2 423 022
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	390 947
	1997..	X	136 836
333120	Construction machinery manufacturing		
00900001	Total materials	2002..	9 562 353
	1997..	X	11 268 087
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002..	468 351
	1997..	X	724 526
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002..	183 519
	1997..	X	267 012
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002..	126 300
	1997..	X	189 571
33291207	Fluid power valves (hydraulic and pneumatic)	2002..	218 843
	1997..	X	277 006
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	153 537
	1997..	X	173 649
33200099	Fabricated structural metal products (excluding forgings)	2002..	467 432
	1997..	X	700 075
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.)	2002..	31 516
	1997..	X	N
33200065	All other fabricated metal products (excluding forgings, castings, metal stampings, bolts, nuts, washers, rivets, screw machine products, and structural metal products)	2002..	221 788
	1997..	X	224 020
332000AC	Metal stampings	2002..	55 992
	1997..	X	148 829
33210000	Forgings	2002..	119 498
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	2002..	497 285
	1997..	X	678 708
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002..	23 639
	1997..	X	19 965
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002..	374 309
	1997..	X	697 563
33120016	Steel sheet and strip (including tinplate)	2002..	145 157
	1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002..	36 255
	1997..	X	165 503
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002..	123 283
	1997..	X	138 306
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	10 781
	1997..	X	8 892
33361803	Diesel engines and parts specially designed for diesel engines	2002..	515 372
	1997..	X	N
33631200	Gasoline engines and parts specially designed for gasoline engines	2002..	67 669
	1997..	X	N
33531201	Electric motors and generators	2002..	128 800
	1997..	X	194 378
33299105	Ball bearings (mounted or unmounted)	2002..	29 760
	1997..	X	85 445
33299103	Roller bearings (mounted or unmounted)	2002..	38 683
	1997..	X	74 703
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002..	193 761
	1997..	X	261 268
32621003	Pneumatic tires and inner tubes	2002..	231 224
	1997..	X	N
33639909	Wheels, motor vehicle	2002..	47 069
	1997..	X	N
33600001	Purchased chassis for vehicles (excluding passenger cars)	2002..	176 995
	1997..	X	N
33635003	Transmissions and parts	2002..	245 288
	1997..	X	N
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	2002..	145 351
	1997..	X	N
33633000	Shocks, struts, and other suspension equipment and parts	2002..	65 951
	1997..	X	N
32622001	Rubber and plastics hose and belting	2002..	81 015
	1997..	X	96 770
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002..	42 407
	1997..	X	56 612
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002..	37 249
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333120	Construction machinery manufacturing— Con.		
001900B1	Electrical transmission, distribution, and control equipment2002..	X	177 833
	1997..	X	336 997
00970099	All other materials and components, parts, containers, and supplies2002..	X	2 404 889
	1997..	X	5 224 128
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	1 675 552
	1997..	X	524 161
333131	Mining machinery and equipment manufacturing		
00900001	Total materials2002..	X	781 959
	1997..	X	1 137 710
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)2002..	X	5 184
	1997..	X	15 605
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)2002..	X	8 216
	1997..	X	43 889
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)2002..	X	4 904
	1997..	X	5 272
33291207	Fluid power valves (hydraulic and pneumatic)2002..	X	5 212
	1997..	X	18 028
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products2002..	X	8 563
	1997..	X	16 374
33200099	Fabricated structural metal products (excluding forgings)2002..	X	26 492
	1997..	X	109 488
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.)2002..	X	2 825
	1997..	X	N
33200065	All other fabricated metal products (excluding forgings, castings, metal stampings, bolts, nuts, washers, rivets, screw machine products, and structural metal products)2002..	X	16 229
	1997..	X	15 426
332000AC	Metal stampings2002..	X	10 247
	1997..	X	844
33210000	Forgings2002..	X	31 563
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)2002..	X	26 496
	1997..	X	109 237
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)2002..	X	D
	1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)2002..	X	40 866
	1997..	X	93 798
33120016	Steel sheet and strip (including tinplate)2002..	X	D
	1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)2002..	X	D
	1997..	X	22 808
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)2002..	X	D
	1997..	X	D
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	5 982
	1997..	X	1 133
33361803	Diesel engines and parts specially designed for diesel engines2002..	X	6 692
	1997..	X	N
33631200	Gasoline engines and parts specially designed for gasoline engines2002..	X	D
	1997..	X	N
33531201	Electric motors and generators2002..	X	27 049
	1997..	X	59 084
33299105	Ball bearings (mounted or unmounted)2002..	X	4 581
	1997..	X	5 879
33299103	Roller bearings (mounted or unmounted)2002..	X	8 242
	1997..	X	17 997
33361200	Mechanical speed changers, gears, and industrial high-speed drives2002..	X	28 892
	1997..	X	46 969
32621003	Pneumatic tires and inner tubes2002..	X	4 308
	1997..	X	N
33639909	Wheels, motor vehicle2002..	X	520
	1997..	X	N
33600001	Purchased chassis for vehicles (excluding passenger cars)2002..	X	5 195
	1997..	X	N
33635003	Transmissions and parts2002..	X	9 325
	1997..	X	N
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)2002..	X	831
	1997..	X	N
33633000	Shocks, struts, and other suspension equipment and parts2002..	X	1 782
	1997..	X	N
32622001	Rubber and plastics hose and belting2002..	X	5 267
	1997..	X	6 598
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)2002..	X	4 547
	1997..	X	10 101
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product2002..	X	3 209
	1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment2002..	X	33 040
	1997..	X	18 796

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333131	Mining machinery and equipment manufacturing— Con.		
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	199 416 316 616
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	210 182 172 079
333132	Oil and gas field machinery and equipment manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 437 418 2 169 789
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X 1997.. X	50 046 N
33291903	All other valves	2002.. X 1997.. X	47 967 72 342
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	32 138 17 171
33391103	All other pumps	2002.. X 1997.. X	2 513 32 773
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X 1997.. X	10 664 6 860
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	5 493 1 536
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	8 984 12 331
33200056	Fabricated metal products (excluding forgings and fluid power products)	2002.. X 1997.. X	195 333 N
33210000	Forgings	2002.. X 1997.. X	49 386 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	127 154 132 874
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X 1997.. X	3 518 5 521
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	105 100 225 453
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	41 862 24 365
33120089	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	62 529 48 724
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 26 751
331000AA	Metal powders	2002.. X 1997.. X	18 093 31 655
33361811	Diesel and semidiesel engines	2002.. X 1997.. X	14 649 22 748
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	4 165 1 254
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X 1997.. X	6 805 8 795
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X 1997.. X	18 134 44 711
32610011	Fabricated plastics products (excluding gaskets)	2002.. X 1997.. X	D 7 885
32799903	Industrial diamonds	2002.. X 1997.. X	D 48 088
33351503	Cutting tools for machine tools	2002.. X 1997.. X	10 415 26 364
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	901 738 868 979
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	686 138 502 609
333210	Sawmill and woodworking machinery manufacturing		
00900001	Total materials	2002.. X 1997.. X	376 502 488 430
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	11 188 16 019
33391103	All other pumps	2002.. X 1997.. X	D 335
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X 1997.. X	D 5 525
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	1 740 3 715
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X 1997.. X	3 499 8 200
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	787 448
00190089	Other fluid power products, hydraulic and pneumatic	2002.. X 1997.. X	2 181 1 037
33200057	Fabricated metal products (excluding forgings)	2002.. X 1997.. X	15 631 28 585

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333210	Sawmill and woodworking machinery manufacturing—Con.		
33210000	Forgings	X	1 606
	.....2002..	X	N
	.....1997..	X	18 101
33151001	Iron and steel castings (rough and semifinished)	X	29 440
	.....2002..	X	
	.....1997..	X	4 926
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	6 685
	.....2002..	X	
	.....1997..	X	D
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	1 925
	.....2002..	X	
	.....1997..	X	16 113
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	55 454
	.....2002..	X	
	.....1997..	X	11 003
33120016	Steel sheet and strip (including tinplate)	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	32 683
	.....2002..	X	3 021
	.....1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 152
	.....2002..	X	718
	.....1997..	X	
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	X	8 345
	.....2002..	X	N
	.....1997..	X	
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	13 801
	.....2002..	X	23 990
	.....1997..	X	
33299105	Ball bearings (mounted or unmounted)	X	6 125
	.....2002..	X	8 902
	.....1997..	X	
33299103	Roller bearings (mounted or unmounted)	X	3 636
	.....2002..	X	4 920
	.....1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	4 225
	.....2002..	X	7 172
	.....1997..	X	
001900B1	Electrical transmission, distribution, and control equipment	X	13 428
	.....2002..	X	15 781
	.....1997..	X	
33531413	Numerical controls for woodworking machinery and equipment	X	11 673
	.....2002..	X	5 436
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	6 473
	.....2002..	X	5 636
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	69 388
	.....2002..	X	185 939
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	109 013
	.....2002..	X	69 547
	.....1997..	X	
333220	Plastics and rubber industry machinery manufacturing		
00900001	Total materials	X	1 142 817
	.....2002..	X	1 359 620
	.....1997..	X	
001900B1	Electrical transmission, distribution, and control equipment	X	108 939
	.....2002..	X	107 001
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	40 502
	.....2002..	X	40 804
	.....1997..	X	
33391101	Other pumps and pump parts, excluding fluid power (complete assemblies)	X	7 754
	.....2002..	X	9 559
	.....1997..	X	
33291207	Fluid power valves (hydraulic and pneumatic)	X	19 337
	.....2002..	X	21 707
	.....1997..	X	
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	19 992
	.....2002..	X	21 591
	.....1997..	X	
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	11 204
	.....2002..	X	12 687
	.....1997..	X	
33399901	Fluid power filters (hydraulic and pneumatic)	X	3 634
	.....2002..	X	4 600
	.....1997..	X	
00190089	Other fluid power products, hydraulic and pneumatic	X	6 654
	.....2002..	X	7 732
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	26 775
	.....2002..	X	13 554
	.....1997..	X	
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	X	30 542
	.....2002..	X	35 473
	.....1997..	X	
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	8 837
	.....2002..	X	10 383
	.....1997..	X	
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	47 382
	.....2002..	X	50 027
	.....1997..	X	
33210000	Forgings	X	6 793
	.....2002..	X	N
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	96 537
	.....2002..	X	93 429
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	8 596
	.....2002..	X	10 161
	.....1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	D
	.....2002..	X	3 590
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	65 345
	.....2002..	X	68 383
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	28 889
	.....2002..	X	N
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333220	Plastics and rubber industry machinery manufacturing —Con.		
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) .....2002..	X	16 464
	.....1997..	X	16 658
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling) .....2002..	X	23 584
	.....1997..	X	25 740
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	7 586
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	2 207
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 522
	.....1997..	X	4 453
33531225	Fractional horsepower electric motors and generators (less than 1 hp) .....2002..	X	12 598
	.....1997..	X	N
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	36 170
	.....1997..	X	42 032
33299101	Ball and roller bearings (mounted or unmounted) .....2002..	X	11 604
	.....1997..	X	16 453
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	17 113
	.....1997..	X	41 226
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) .....2002..	X	D
	.....1997..	X	N
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	3 429
	.....1997..	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	40 984
	.....1997..	X	N
32212031	Filter paper .....2002..	X	D
	.....1997..	X	1 645
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	226 147
	.....1997..	X	544 618
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	199 686
	.....1997..	X	153 907
333291	Paper industry machinery manufacturing		
00900001	Total materials .....2002..	X	674 394
	.....1997..	X	1 472 409
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	19 438
	.....1997..	X	92 181
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	3 539
	.....1997..	X	10 466
33391103	All other pumps .....2002..	X	D
	.....1997..	X	325
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	20 698
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	17 248
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	949
	.....1997..	X	19 437
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	377
	.....1997..	X	2 251
00190089	Other fluid power products, hydraulic and pneumatic .....2002..	X	1 695
	.....1997..	X	7 098
33200057	Fabricated metal products (excluding forgings) .....2002..	X	37 714
	.....1997..	X	73 655
33210000	Forgings .....2002..	X	3 032
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	47 079
	.....1997..	X	73 337
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	2 314
	.....1997..	X	13 697
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	29 675
	.....1997..	X	144 131
33120016	Steel sheet and strip (including tinplate) .....2002..	X	8 108
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 818
	.....1997..	X	27 396
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 020
	.....1997..	X	9 795
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	13 470
	.....1997..	X	27 880
33299105	Ball bearings (mounted or unmounted) .....2002..	X	4 621
	.....1997..	X	16 840
33299103	Roller bearings (mounted or unmounted) .....2002..	X	3 456
	.....1997..	X	22 496

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333291	Paper industry machinery manufacturing—Con.		
33361301	Plain bearings and bushings	X	4 101
	.....2002..	X	14 601
	.....1997..		
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	11 628
	.....2002..	X	60 366
	.....1997..		
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	8 628
	.....2002..	X	14 043
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	206 028
	.....2002..	X	670 471
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	244 568
	.....2002..	X	133 997
	.....1997..		
333292	Textile machinery manufacturing		
00900001	Total materials	X	326 439
	.....2002..	X	597 936
	.....1997..		
00190090	Fluid power products	X	10 437
	.....2002..	X	22 143
	.....1997..		
33200057	Fabricated metal products (excluding forgings)	X	20 871
	.....2002..	X	54 948
	.....1997..		
33210000	Forgings	X	3 419
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	7 310
	.....2002..	X	31 556
	.....1997..		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	3 991
	.....2002..	X	8 496
	.....1997..		
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	2 075
	.....2002..	X	3 123
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	6 926
	.....2002..	X	35 106
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	3 080
	.....2002..	X	N
	.....1997..		
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	2 862
	.....1997..		
33120025	Steel wire and wire products	X	7 143
	.....2002..	X	27 666
	.....1997..		
33120087	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 907
	.....2002..	X	4 143
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 856
	.....2002..	X	N
	.....1997..		
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	10 008
	.....1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	D
	.....2002..	X	18 050
	.....1997..		
33299105	Ball bearings (mounted or unmounted)	X	3 663
	.....2002..	X	7 174
	.....1997..		
33299103	Roller bearings (mounted or unmounted)	X	1 667
	.....2002..	X	3 041
	.....1997..		
33360000	Speed reducers, gears, drives, and other mechanical power transmission equipment (excluding bearings)	X	4 170
	.....2002..	X	16 519
	.....1997..		
32610011	Fabricated plastics products (excluding gaskets)	X	5 105
	.....2002..	X	8 535
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	23 598
	.....2002..	X	44 668
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	59 623
	.....2002..	X	183 545
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	145 714
	.....2002..	X	116 353
	.....1997..		
333293	Printing machinery and equipment manufacturing		
00900001	Total materials	X	1 189 271
	.....2002..	X	1 414 182
	.....1997..		
00190090	Fluid power products	X	13 391
	.....2002..	X	41 429
	.....1997..		
33200057	Fabricated metal products (excluding forgings)	X	186 053
	.....2002..	X	197 701
	.....1997..		
33210000	Forgings	X	3 342
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	29 484
	.....2002..	X	33 951
	.....1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	7 527
	.....2002..	X	5 316
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	19 741
	.....2002..	X	41 541
	.....1997..		
33120085	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 561
	.....2002..	X	21 068
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	17 098
	.....2002..	X	N
	.....1997..		
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 504
	.....2002..	X	2 314
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333293	Printing machinery and equipment manufacturing— Con.		
33531225	Fractional horsepower electric motors and generators (less than 1 hp) .....2002..	X	9 623
	.....1997..	X	N
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	6 620
	.....1997..	X	20 818
33299105	Ball bearings (mounted or unmounted) .....2002..	X	9 459
	.....1997..	X	17 897
33299103	Roller bearings (mounted or unmounted) .....2002..	X	6 106
	.....1997..	X	15 554
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	11 717
	.....1997..	X	34 536
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	26 792
	.....1997..	X	44 168
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	348 953
	.....1997..	X	591 155
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	478 300
	.....1997..	X	346 734
333294	Food product machinery manufacturing		
00900001	Total materials .....2002..	X	1 107 054
	.....1997..	X	1 091 528
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	11 834
	.....1997..	X	9 007
33391103	All other pumps .....2002..	X	4 428
	.....1997..	X	13 329
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	8 347
	.....1997..	X	9 544
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	3 913
	.....1997..	X	3 984
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	4 737
	.....1997..	X	4 938
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	1 543
	.....1997..	X	1 786
00190089	Other fluid power products, hydraulic and pneumatic .....2002..	X	3 059
	.....1997..	X	2 186
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments) .....2002..	X	37 760
	.....1997..	X	40 912
33200059	All other fabricated metal products (excluding forgings) .....2002..	X	76 591
	.....1997..	X	68 858
33210000	Forgings .....2002..	X	4 094
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	17 357
	.....1997..	X	23 679
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	8 807
	.....1997..	X	20 989
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	4 682
	.....1997..	X	4 716
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	37 374
	.....1997..	X	49 466
33120016	Steel sheet and strip (including tinplate) .....2002..	X	34 847
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 960
	.....1997..	X	15 089
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	9 456
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 207
	.....1997..	X	2 838
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 854
	.....1997..	X	12 524
33531225	Fractional horsepower electric motors and generators (less than 1 hp) .....2002..	X	9 294
	.....1997..	X	N
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	13 779
	.....1997..	X	18 091
33299101	Ball and roller bearings (mounted or unmounted) .....2002..	X	12 189
	.....1997..	X	12 310
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	13 206
	.....1997..	X	21 821
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	31 705
	.....1997..	X	43 307
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32192001	Wood boxes, pallets, skids, and containers .....2002..	X	4 235
	.....1997..	X	5 990
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333294	Food product machinery manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	1997.. X	N
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X 2002.. X 1997.. X	219 669 422 007 506 258 284 157
333295	Semiconductor machinery manufacturing		
00900001	Total materials	2002.. X 1997.. X	5 076 793 4 820 559
001900B1	Electrical transmission, distribution, and control equipment.....	2002.. X 1997.. X	236 615 249 994
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	100 635 113 985
33391101	Other pumps and pump parts, excluding fluid power (complete assemblies).....	2002.. X 1997.. X	157 598 172 452
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X 1997.. X	76 769 85 866
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X 1997.. X	D 20 957
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	53 685 57 797
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	37 869 39 041
00190089	Other fluid power products, hydraulic and pneumatic	2002.. X 1997.. X	D 37 579
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	49 361 55 701
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	2002.. X 1997.. X	31 332 48 101
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	2002.. X 1997.. X	38 761 41 042
33200051	Other fabricated metal products (excluding fluid power products and forgings)	2002.. X 1997.. X	193 179 202 344
33210000	Forgings	2002.. X 1997.. X	1 550 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	D 35 507
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	75 894 79 590
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	20 435 30 073
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	D N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 28 283
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X 1997.. X	D 5 916
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X 1997.. X	D N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	8 608 D
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	2002.. X 1997.. X	4 171 N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	D 66 805
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X 1997.. X	D 23 128
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X 1997.. X	3 764 5 513
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	2002.. X 1997.. X	D N
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X 1997.. X	5 525 N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	2002.. X 1997.. X	50 310 N
32212031	Filter paper	2002.. X 1997.. X	D D

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333295	Semiconductor machinery manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	1 929 115
	.....2002..	X	2 215 591
	.....1997..	X	1 555 100
00971000	Materials, ingredients, containers, and supplies, nsk	X	981 273
	.....2002..	X	
	.....1997..	X	
333298	All other industrial machinery manufacturing		
00900001	Total materials	X	2 855 673
	.....2002..	X	3 264 095
	.....1997..	X	97 819
001900B1	Electrical transmission, distribution, and control equipment	X	117 088
	.....2002..	X	
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	39 666
	.....2002..	X	40 715
	.....1997..	X	
33391101	Other pumps and pump parts, excluding fluid power (complete assemblies)	X	19 565
	.....2002..	X	26 602
	.....1997..	X	34 019
33291207	Fluid power valves (hydraulic and pneumatic)	X	21 620
	.....2002..	X	
	.....1997..	X	
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	10 278
	.....2002..	X	23 360
	.....1997..	X	
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	7 952
	.....2002..	X	13 060
	.....1997..	X	
33399901	Fluid power filters (hydraulic and pneumatic)	X	5 720
	.....2002..	X	7 483
	.....1997..	X	
00190089	Other fluid power products, hydraulic and pneumatic	X	4 077
	.....2002..	X	6 413
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	24 692
	.....2002..	X	45 372
	.....1997..	X	
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	X	73 255
	.....2002..	X	51 100
	.....1997..	X	
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	39 432
	.....2002..	X	44 979
	.....1997..	X	
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	155 365
	.....2002..	X	173 863
	.....1997..	X	
33210000	Forgings	X	6 909
	.....2002..	X	N
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	50 259
	.....2002..	X	61 994
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	20 190
	.....2002..	X	18 708
	.....1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	15 268
	.....2002..	X	4 685
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	101 870
	.....2002..	X	122 068
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	101 054
	.....2002..	X	N
	.....1997..	X	
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	24 652
	.....2002..	X	28 619
	.....1997..	X	
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	46 704
	.....2002..	X	53 827
	.....1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	13 180
	.....2002..	X	N
	.....1997..	X	
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 353
	.....2002..	X	12 047
	.....1997..	X	
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	18 203
	.....2002..	X	18 718
	.....1997..	X	
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	X	12 738
	.....2002..	X	N
	.....1997..	X	
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	26 760
	.....2002..	X	34 936
	.....1997..	X	
33299101	Ball and roller bearings (mounted or unmounted)	X	10 026
	.....2002..	X	28 728
	.....1997..	X	
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	17 790
	.....2002..	X	31 409
	.....1997..	X	
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	D
	.....2002..	X	N
	.....1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	8 983
	.....2002..	X	N
	.....1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	52 883
	.....2002..	X	N
	.....1997..	X	
32212031	Filter paper	X	D
	.....2002..	X	10 676
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	923 146
2002..	X	

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333298	All other industrial machinery manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X 2002.. X 1997.. X	1 344 405 874 772 921 620
333311	Automatic vending machine manufacturing		
00900001	Total materials	2002.. X 1997.. X	777 615 673 208
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	2002.. X 1997.. X	36 286 48 969
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	2002.. X 1997.. X	31 897 36 708
33593101	Current-carrying wiring devices	2002.. X 1997.. X	59 348 82 655
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	7 351 17 889
332000AC	Metal stampings	2002.. X 1997.. X	10 151 17 168
33200071	Other fabricated metal products (excluding electrical enclosures, forgings, metal stamping, bolts, nuts, screws, washers, rivets, and other screw machine products)	2002.. X 1997.. X	39 974 30 046
33210000	Forgings	2002.. X 1997.. X	D N
33100035	Castings, rough and semifinished	2002.. X 1997.. X	6 212 6 307
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	59 186 65 405
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 4 327
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	37 649 51 293
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	4 533 N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X 1997.. X	5 387 7 829
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	377 567 265 216
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	95 898 39 396
333312	Commercial laundry, drycleaning, and pressing machine manufacturing		
00900001	Total materials	2002.. X 1997.. X	207 590 311 008
332000AC	Metal stampings	2002.. X 1997.. X	3 923 13 102
33290001	Metal pipe, valves, and pipe fittings (excluding plumbers' and forgings)	2002.. X 1997.. X	4 892 12 853
33200069	Other fabricated metal products (excluding forgings)	2002.. X 1997.. X	8 538 30 315
33210000	Forgings	2002.. X 1997.. X	D N
33100035	Castings, rough and semifinished	2002.. X 1997.. X	3 971 8 433
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	25 063 N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	5 531 N
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	2002.. X 1997.. X	D N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	10 314 13 431
33593101	Current-carrying wiring devices	2002.. X 1997.. X	2 732 10 307
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	12 267 26 950
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	40 187 172 282
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	87 315 23 335
333313	Office machinery manufacturing		
00900001	Total materials	2002.. X 1997.. X	985 065 1 080 301
33441103	Cathode ray tubes (CRT) and all other transmittal, industrial, and special purpose electron tubes (excluding X-ray)	2002.. X 1997.. X	D D
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X 1997.. X	2 348 9 013
001900C3	Printed memory boards for electronic circuitry	2002.. X 1997.. X	372 7 048

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333313	Office machinery manufacturing—Con.		
001900C6	Printed peripheral controllers (graphic boards, drive controllers, etc.) for electronic circuitry .....2002..	X	D
	.....1997..	X	9 818
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry .....2002..	X	D
	.....1997..	X	19 284
001900C5	Printed communication boards (LAN boards, D/A and A/D converters, etc.) for electronic circuitry .....2002..	X	D
	.....1997..	X	D
001900D1	Other printed circuit boards (loaded boards, subassemblies, and modules) for electronic circuitry .....2002..	X	7 077
	.....1997..	X	2 391
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	268
	.....1997..	X	28 197
33441400	Capacitors for electronic circuitry .....2002..	X	89
	.....1997..	X	5 066
33441500	Resistors for electronic circuitry .....2002..	X	89
	.....1997..	X	2 428
33441700	Connectors for electronic circuitry .....2002..	X	199
	.....1997..	X	6 293
33400017	Battery packs for electronic circuitry .....2002..	X	D
	.....1997..	X	3 056
001900D2	Other power supply units for electronic circuitry .....2002..	X	2 902
	.....1997..	X	4 355
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes .....2002..	X	D
	.....1997..	X	12 219
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	D
	.....1997..	X	5 148
33232201	Steel, aluminum, and other metal electronic enclosures .....2002..	X	2 503
	.....1997..	X	14 477
32619901	Plastics electronic enclosures .....2002..	X	4 280
	.....1997..	X	8 287
33200003	Sheet metal products, including stampings (excluding enclosures) .....2002..	X	16 697
	.....1997..	X	17 535
33200017	All other fabricated metal products (excluding forgings) .....2002..	X	43 433
	.....1997..	X	14 089
33210000	Forgings .....2002..	X	164
	.....1997..	N	N
33100035	Castings, rough and semifinished .....2002..	X	D
	.....1997..	X	1 812
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	9 022
331000A9	Insulated copper wire and cable (including magnet wire) .....2002..	X	3 595
	.....1997..	X	3 040
32610031	Fabricated plastics products (excluding enclosures) .....2002..	X	5 470
	.....1997..	X	10 546
33461100	Purchased software .....2002..	X	8 482
	.....1997..	X	D
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices .....2002..	X	D
	.....1997..	X	3 311
33531201	Electric motors and generators .....2002..	X	4 822
	.....1997..	X	14 370
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard) .....2002..	X	5 998
	.....1997..	X	5 774
33411101	Purchased computers .....2002..	X	18 208
	.....1997..	X	10 573
33411200	Purchased peripheral storage devices .....2002..	X	D
	.....1997..	X	D
33411300	Purchased computer terminals .....2002..	X	1 093
	.....1997..	X	194
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.) .....2002..	X	D
	.....1997..	X	D
33411905	Purchased peripheral printers .....2002..	X	5 588
	.....1997..	X	9 271
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	688 336
	.....1997..	X	160 342
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	131 021
	.....1997..	X	639 529
333314	Optical instrument and lens manufacturing		
00900001	Total materials .....2002..	X	929 941
	.....1997..	X	1 042 917
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	6 819
	.....1997..	X	12 075
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	36 647
	.....1997..	X	75 188
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	10 235
	.....1997..	X	22 853
33441400	Capacitors for electronic circuitry .....2002..	X	D
	.....1997..	X	4 612

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333314	Optical instrument and lens manufacturing—Con.		
33441500	Resistors for electronic circuitry	X	1 430
	.....2002..	X	1 618
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	28 475
	.....2002..	X	11 095
	.....1997..		D
33593101	Current-carrying wiring devices	X	27 125
	.....2002..	X	579
	.....1997..		N
33531211	Fractional horsepower electric motors (less than 1 hp)	X	1 222
	.....2002..	X	N
	.....1997..		
33422001	Electronic communication equipment	X	3 840
	.....2002..	X	2 908
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	D
	.....2002..	X	11 245
	.....1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	5 072
	.....2002..	X	D
	.....1997..		
33451503	All other miscellaneous electrical measuring instruments and parts	X	1 757
	.....2002..	X	N
	.....1997..		
331000A7	Insulated wire and cable (including magnet wire)	X	14 551
	.....2002..	X	23 899
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	12 294
	.....2002..	X	38 630
	.....1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	5 191
	.....2002..	X	N
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	3 149
	.....2002..	X	18 061
	.....1997..		
332000A9	Sheet metal products (excluding stampings)	X	1 560
	.....2002..	X	5 724
	.....1997..		
332000AC	Metal stampings	X	6 245
	.....2002..	X	N
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	23 777
	.....2002..	X	100 638
	.....1997..		
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	D
	.....2002..	X	N
	.....1997..		
33210000	Forgings	X	5 198
	.....2002..	X	D
	.....1997..		
33100035	Castings, rough and semifinished	X	2 961
	.....2002..	X	N
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	149
	.....2002..	X	N
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	540
	.....2002..	X	N
	.....1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 409
	.....2002..	X	27 166
	.....1997..		
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	472
	.....2002..	X	N
	.....1997..		
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 284
	.....2002..	X	N
	.....1997..		
33441900	Liquid crystal display screens (LCD), including LED	X	71 795
	.....2002..	X	196 038
	.....1997..		
32720003	Glass and glass products (excluding windows and mirrors)	X	109 761
	.....2002..	X	N
	.....1997..		
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	96 634
	.....2002..	X	207 236
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	466 252
	.....2002..	X	214 866
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..		
	.....1997..		
333315	Photographic and photocopying equipment manufacturing		
00900001	Total materials	X	736 404
	.....2002..	X	2 954 469
	.....1997..		
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings)	X	22 601
	.....2002..	X	53 572
	.....1997..		D
33151001	Iron and steel castings (rough and semifinished)	X	6 182
	.....2002..	X	3 709
	.....1997..	X	97 522
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	D
	.....2002..	X	48
	.....1997..		
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	3 218
	.....2002..	X	N
	.....1997..		
332000AC	Metal stampings	X	4 050
	.....2002..	X	N
	.....1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 276
	.....2002..	X	35 505
	.....1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
2002..		
1997..		

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333315	Photographic and photocopying equipment manufacturing—Con.		
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	89 120
	.....2002..	X	563 707
	.....1997..		D
33441500	Resistors for electronic circuitry	X	D
	.....2002..	X	N
	.....1997..		D
33441400	Capacitors for electronic circuitry	X	D
	.....2002..	X	N
	.....1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	D
	.....2002..	X	N
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	8 418
	.....2002..	X	N
	.....1997..		
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	8 160
	.....2002..	X	N
	.....1997..		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	6 260
	.....2002..	X	N
	.....1997..		
33531211	Fractional horsepower electric motors (less than 1 hp)	X	8 664
	.....2002..	X	N
	.....1997..		
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..		
32599215	Prepared photographic chemicals	X	D
	.....2002..	X	N
	.....1997..		
325100A7	Synthetic organic chemicals (excluding prepared photographic chemicals)	X	D
	.....2002..	X	N
	.....1997..		
325000B1	All other miscellaneous inorganic chemicals (excluding silver nitrate and prepared photographic chemicals)	X	D
	.....2002..	X	N
	.....1997..		
32210007	Paper and paperboard products (excluding paperboard boxes, containers, corrugated paperboard, and photographic base papers)	X	3 537
	.....2002..	X	9 950
	.....1997..		D
32212025	Photographic base papers	X	676
	.....2002..	X	30 996
	.....1997..	X	67 882
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	23 563
	.....2002..	X	73 163
	.....1997..	X	10 140
32610011	Fabricated plastics products (excluding gaskets)	X	269 701
	.....2002..	X	5 058
	.....1997..		D
33331405	Photographic and projection lenses and prisms	X	D
	.....2002..	X	D
	.....1997..		
32599203	Light sensitive films and papers	X	D
	.....2002..	X	D
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	245 940
	.....2002..	X	1 322 738
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	159 738
	.....2002..	X	284 688
	.....1997..		
333319	Other commercial and service industry machinery manufacturing		
00900001	Total materials	X	4 426 189
	.....2002..	X	3 747 460
	.....1997..		
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	279 634
	.....2002..	X	68 315
	.....1997..		
33291207	Fluid power valves (hydraulic and pneumatic)	X	38 792
	.....2002..	X	53 820
	.....1997..		
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	21 678
	.....2002..	X	19 129
	.....1997..		
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	36 557
	.....2002..	X	41 397
	.....1997..		
33399901	Fluid power filters (hydraulic and pneumatic)	X	19 315
	.....2002..	X	25 396
	.....1997..		
00190089	Other fluid power products, hydraulic and pneumatic	X	21 008
	.....2002..	X	9 310
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	62 978
	.....2002..	X	66 710
	.....1997..		
33200077	Other fabricated metal products (excluding electrical enclosures, forgings, pipe, valves, pipe fittings, bolts, nuts, screws, rivets, screw machine products, and fluid power products)	X	165 345
	.....2002..	X	141 131
	.....1997..		
33210000	Forgings	X	3 121
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	37 919
	.....2002..	X	67 925
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	34 904
	.....2002..	X	59 385
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	73 052
	.....2002..	X	N
	.....1997..		
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	18 671
	.....2002..	X	21 510
	.....1997..		
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	34 796
2002..		

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333319	Other commercial and service industry machinery manufacturing—Con.		
	1997..	X	44 419
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 310
	2002..	X	49 118
	1997..		
33531225	Fractional horsepower electric motors and generators (less than 1 hp)	X	39 530
	2002..	X	53 271
	1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	78 074
	2002..	X	93 994
	1997..		
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	13 408
	2002..	X	27 201
	1997..		
33391103	All other pumps	X	32 468
	2002..		
	1997..	X	60 191
33290001	Metal pipe, valves, and pipe fittings (excluding plumbers' and forgings)	X	52 314
	2002..	X	40 703
	1997..		
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	66 791
	2002..	X	27 449
	1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	21 869
	2002..	X	22 584
	1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	9 851
	2002..	X	N
	1997..		
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	19 391
	2002..		
	1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 128
	2002..	X	N
	1997..	X	N
332000A9	Sheet metal products (excluding stampings)	X	67 010
	2002..	X	N
	1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	32 761
	2002..	X	80 694
	1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	53 107
	2002..	X	72 343
	1997..	X	27 256
00190091	Electrical enclosures (metal and plastics)	X	
	2002..		
	1997..	X	20 011
33593101	Current-carrying wiring devices	X	86 905
	2002..	X	38 669
	1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	37 987
	2002..	X	42 998
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	1 232 295
	2002..	X	1 676 754
	1997..	X	1 688 964
00971000	Materials, ingredients, containers, and supplies, nsk	X	823 033
	2002..		
	1997..		
333411	Air purification equipment manufacturing		
00900001	Total materials	X	876 860
	2002..	X	853 520
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	2 491
	2002..	X	24 758
	1997..	X	7 135
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	43 077
	2002..		
	1997..	X	16 948
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	21 906
	2002..	X	30 909
	1997..	X	43 826
33200099	Fabricated structural metal products (excluding forgings)	X	
	2002..		
	1997..	X	3 281
00190090	Fluid power products	X	17 611
	2002..	X	430
	1997..	X	21 840
33151001	Iron and steel castings (rough and semifinished)	X	
	2002..	X	1 205
	1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	9 035
	2002..	X	39 552
	1997..	X	36 524
33120016	Steel sheet and strip (including tinplate)	X	N
	2002..		
	1997..	X	
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 157
	2002..	X	11 537
	1997..		
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	6 123
	2002..	X	52 601
	1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	8 427
	2002..	X	N
	1997..	X	
33531201	Electric motors and generators	X	6 469
	2002..	X	40 778
	1997..	X	555
33299101	Ball and roller bearings (mounted or unmounted)	X	4 189
	2002..	X	
	1997..		

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333411	Air purification equipment manufacturing—Con.		
00190011	Flexible packaging materials, paperboard containers and boxes, and corrugated paperboard	X	12 681
	.....2002..	X	21 027
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	400 048
	.....2002..	X	403 720
	.....1997..	X	327 442
00971000	Materials, ingredients, containers, and supplies, nsk	X	104 372
	.....2002..	X	
	.....1997..		
333412	Industrial and commercial fan and blower manufacturing		
00900001	Total materials	X	737 895
	.....2002..	X	808 856
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	11 340
	.....2002..	X	17 918
	.....1997..	X	846
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	3 408
	.....2002..	X	
	.....1997..		
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	11 476
	.....2002..	X	D
	.....1997..	X	
33200099	Fabricated structural metal products (excluding forgings)	X	48 276
	.....2002..	X	37 446
	.....1997..		
00190090	Fluid power products	X	2 138
	.....2002..	X	D
	.....1997..	X	
33210000	Forgings	X	5 490
	.....2002..	X	N
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	17 067
	.....2002..	X	23 939
	.....1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	16 156
	.....2002..	X	19 082
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	16 341
	.....2002..	X	30 079
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	59 809
	.....2002..	X	N
	.....1997..		
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 561
	.....2002..	X	7 409
	.....1997..		
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 648
	.....2002..	X	5 014
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	16 470
	.....2002..	X	N
	.....1997..	X	
33531201	Electric motors and generators	X	104 213
	.....2002..	X	94 586
	.....1997..		
33299101	Ball and roller bearings (mounted or unmounted)	X	14 873
	.....2002..	X	25 216
	.....1997..		
00190011	Flexible packaging materials, paperboard containers and boxes, and corrugated paperboard	X	10 811
	.....2002..	X	9 440
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	362 656
	.....2002..	X	370 424
	.....1997..	X	27 724
00971000	Materials, ingredients, containers, and supplies, nsk	X	156 619
	.....2002..	X	
	.....1997..		
333414	Heating equipment (except warm air furnaces) manufacturing		
00900001	Total materials	X	1 511 596
	.....2002..	X	1 496 258
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	28 483
	.....2002..	X	20 071
	.....1997..	X	11 863
33290005	Fabricated metal pipe (excluding castings and forgings)	X	N
	.....2002..	X	
	.....1997..		
33341403	Metal parts and attachments specially designed for heating equipment (excluding electric)	X	32 194
	.....2002..	X	N
	.....1997..	X	
33291905	Fabricated metal valves and pipe fittings	X	40 600
	.....2002..	X	N
	.....1997..		
33200037	All other fabricated metal products (excluding forgings, metal stampings, valves and pipe fittings, fabricated metal pipe, bolts, nuts, screws, washers, and rivets)	X	138 235
	.....2002..	X	242 958
	.....1997..	X	4 911
33210000	Forgings	X	N
	.....2002..	X	
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	106 137
	.....2002..	X	73 431
	.....1997..		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	9 853
	.....2002..	X	N
	.....1997..	X	
33152009	Other nonferrous castings (rough and semifinished)	X	3 081
	.....2002..	X	N
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	22 218
	.....2002..	X	23 175
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	148 181
	.....2002..	X	N
	.....1997..		
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	3 900
2002..	X	N
1997..		

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333414	Heating equipment (except warm air furnaces) manufacturing—Con.		
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	10 146
	.....2002..	X	21 501
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 307
	.....2002..	X	N
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	10 980
	.....2002..	X	N
	.....1997..		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	3 393
	.....2002..	X	N
	.....1997..		
332000AC	Metal stampings	X	6 503
	.....2002..	X	N
	.....1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	38 659
	.....2002..	X	N
	.....1997..		
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	91 769
	.....2002..	X	115 062
	.....1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	37 453
	.....2002..	X	42 994
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	512 261
	.....2002..	X	691 959
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	245 469
	.....2002..	X	265 107
	.....1997..		
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing		
00900001	Total materials	X	11 006 901
	.....2002..	X	11 535 502
	.....1997..		
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	X	1 915 770
	.....2002..	X	1 686 209
	.....1997..		
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	X	313 898
	.....2002..	X	233 853
	.....1997..		
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	X	230 751
	.....2002..	X	334 893
	.....1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	475 667
	.....2002..	X	772 225
	.....1997..		
33341200	Fans and blowers	X	185 152
	.....2002..	X	160 903
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	347 741
	.....2002..	X	494 627
	.....1997..		
33593101	Current-carrying wiring devices	X	152 405
	.....2002..	X	191 831
	.....1997..		
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	267 381
	.....2002..	X	361 032
	.....1997..		
33299101	Ball and roller bearings (mounted or unmounted)	X	22 727
	.....2002..	X	32 498
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	188 251
	.....2002..	X	168 472
	.....1997..		
332000AC	Metal stampings	X	140 720
	.....2002..	X	274 329
	.....1997..		
33251005	Metal hardware (including hinges, handles, locks, casters, etc.)	X	71 181
	.....2002..	X	70 484
	.....1997..		
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	158 247
	.....2002..	X	198 373
	.....1997..		
33200053	All other fabricated metal products (excluding forgings)	X	308 080
	.....2002..	X	315 747
	.....1997..		
33210000	Forgings	X	26 252
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	379 021
	.....2002..	X	363 827
	.....1997..		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	118 640
	.....2002..	X	94 726
	.....1997..		
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	22 858
	.....2002..	X	10 184
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	247 441
	.....2002..	X	288 263
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	667 171
	.....2002..	X	N
	.....1997..		
33120025	Steel wire and wire products	X	53 467
	.....2002..	X	33 633
	.....1997..		
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	124 875
	.....2002..	X	156 366
	.....1997..		
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	X	493 048
	.....2002..	X	532 341
	.....1997..		
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	52 066
	.....2002..	X	N
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing—Con.		
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	276 769
	.....2002..	X	N
	.....1997..		
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	43 378
	.....2002..	X	76 507
	.....1997..		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	35 196
	.....2002..	X	N
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	146 787
	.....2002..	X	161 505
	.....1997..		
32192003	Wooden containers, complete (including combination wood and paperboard)	X	43 734
	.....2002..	X	45 406
	.....1997..		
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	44 319
	.....2002..	X	N
	.....1997..		
32510027	Refrigerant gases and other synthetic organic chemicals	X	68 178
	.....2002..	X	85 994
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	78 942
	.....2002..	X	59 485
	.....1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	88 025
	.....2002..	X	94 501
	.....1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	167 068
	.....2002..	X	169 435
	.....1997..		
32622001	Rubber and plastics hose and belting	X	37 074
	.....2002..	X	42 354
	.....1997..		
33999101	Gaskets (all types) and asbestos packing	X	45 686
	.....2002..	X	43 206
	.....1997..		
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	65 274
	.....2002..	X	94 281
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	1 810 835
	.....2002..	X	2 727 852
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 092 826
	.....2002..	X	1 160 160
	.....1997..		
333511	Industrial mold manufacturing		
00900001	Total materials	X	1 182 683
	.....2002..	X	943 992
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	39 730
	.....2002..	X	26 294
	.....1997..		
33200095	Other fabricated metal products (excluding castings and forgings)	X	81 375
	.....2002..	X	51 896
	.....1997..		
33210000	Forgings	X	14 224
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	66 503
	.....2002..	X	52 290
	.....1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	37 253
	.....2002..	X	24 534
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	179 251
	.....2002..	X	155 497
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	32 468
	.....2002..	X	N
	.....1997..		
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	53 129
	.....2002..	X	41 681
	.....1997..		
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	9 569
	.....2002..	X	N
	.....1997..		
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	25 215
	.....2002..	X	13 350
	.....1997..		
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	12 824
	.....2002..	X	3 769
	.....1997..		
33149200	Tungsten carbide metal powders	X	D
	.....2002..	X	777
	.....1997..		
331000AC	All other metal powders	X	2 742
	.....2002..	X	311
	.....1997..		
32799903	Industrial diamonds	X	D
	.....2002..	X	1 955
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	17 830
	.....2002..	X	5 071
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	25 002
	.....2002..	X	10 951
	.....1997..		
00190090	Fluid power products	X	12 132
	.....2002..	X	8 258
	.....1997..		
33351503	Cutting tools for machine tools	X	28 048
	.....2002..	X	N
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	254 501
	.....2002..	X	264 589
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333511	Industrial mold manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk	X	268 680
	.....2002..	X	282 769
	.....1997..		
333512	Machine tool (metal cutting types) manufacturing		
00900001	Total materials	X	1 148 452
	.....2002..	X	2 260 534
	.....1997..		
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	13 780
	.....2002..	X	43 237
	.....1997..		
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	8 142
	.....2002..	X	8 955
	.....1997..		
33399901	Fluid power filters (hydraulic and pneumatic)	X	2 400
	.....2002..	X	3 128
	.....1997..		
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	7 309
	.....2002..	X	8 896
	.....1997..		
33291207	Fluid power valves (hydraulic and pneumatic)	X	5 770
	.....2002..	X	17 613
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	13 758
	.....2002..	X	29 172
	.....1997..		
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	49 988
	.....2002..	X	N
	.....1997..		
33210000	Forgings	X	2 550
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	50 192
	.....2002..	X	178 001
	.....1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	2 821
	.....2002..	X	8 700
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	43 224
	.....2002..	X	63 625
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	D
	.....2002..	X	N
	.....1997..		
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	8 843
	.....1997..		
33120092	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	13 342
	.....2002..	X	N
	.....1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 614
	.....2002..	X	10 824
	.....1997..		
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	X	9 019
	.....2002..	X	26 860
	.....1997..		
33531217	Other fractional horsepower electric motors (less than 1 hp)	X	2 241
	.....2002..	X	20 412
	.....1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	12 622
	.....2002..	X	25 202
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	16 660
	.....2002..	X	85 123
	.....1997..		
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	X	3 287
	.....2002..	X	23 855
	.....1997..		
33531409	Numerical controls for metalworking machinery (excluding programmable)	X	28 651
	.....2002..	X	74 810
	.....1997..		
33531411	Programmable controllers for metalworking machinery	X	27 688
	.....2002..	X	79 542
	.....1997..		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	16 213
	.....2002..	X	N
	.....1997..		
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	2 252
	.....2002..	X	N
	.....1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	276
	.....2002..	X	N
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	5 363
	.....2002..	X	N
	.....1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	6 808
	.....2002..	X	N
	.....1997..		
33422001	Electronic communication equipment	X	174
	.....2002..	X	N
	.....1997..		
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	.....2002..	X	N
	.....1997..		
33299105	Ball bearings (mounted or unmounted)	X	13 680
	.....2002..	X	30 260
	.....1997..		
33299103	Roller bearings (mounted or unmounted)	X	6 150
	.....2002..	X	8 298
	.....1997..		
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	10 123
	.....2002..	X	33 236
	.....1997..		
32192001	Wood boxes, pallets, skids, and containers	X	4 443
	.....2002..	X	6 440
	.....1997..		
33351503	Cutting tools for machine tools	X	17 346
	.....2002..	X	89 178
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333512	Machine tool (metal cutting types) manufacturing— Con.		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....2002..	X	2 851
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	1 522
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	332 669
	.....1997..	X	871 490
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	375 181
	.....1997..	X	504 834
333513	Machine tool (metal forming types) manufacturing		
00900001	Total materials.....2002..	X	412 225
	.....1997..	X	798 675
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic).....2002..	X	8 036
	.....1997..	X	25 110
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic).....2002..	X	2 514
	.....1997..	X	14 030
33399901	Fluid power filters (hydraulic and pneumatic).....2002..	X	392
	.....1997..	X	2 920
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic).....2002..	X	2 962
	.....1997..	X	8 579
33291207	Fluid power valves (hydraulic and pneumatic).....2002..	X	2 970
	.....1997..	X	13 634
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	2 858
	.....1997..	X	14 402
33200051	Other fabricated metal products (excluding fluid power products and forgings).....2002..	X	16 553
	.....1997..	X	N
33210000	Forgings.....2002..	X	1 763
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished).....2002..	X	10 700
	.....1997..	X	32 070
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished).....2002..	X	341
	.....1997..	X	4 217
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products).....2002..	X	14 163
	.....1997..	X	69 502
33120016	Steel sheet and strip (including tinplate).....2002..	X	1 359
	.....1997..	X	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products).....2002..	X	2 264
	.....1997..	X	7 271
33120092	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	3 676
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	2 935
	.....1997..	X	3 242
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp).....2002..	X	1 978
	.....1997..	X	2 112
33531217	Other fractional horsepower electric motors (less than 1 hp).....2002..	X	232
	.....1997..	X	3 666
33531221	Integral horsepower electric motors and generators (1 hp or more).....2002..	X	2 697
	.....1997..	X	15 071
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	4 465
	.....1997..	X	32 233
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings.....2002..	X	863
	.....1997..	X	6 694
33531409	Numerical controls for metalworking machinery (excluding programmable).....2002..	X	2 027
	.....1997..	X	13 826
33531411	Programmable controllers for metalworking machinery.....2002..	X	6 193
	.....1997..	X	22 763
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components).....2002..	X	1 036
	.....1997..	X	N
33441200	Printed circuit boards (without inserted components) for electronic circuitry.....2002..	X	325
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry.....2002..	X	552
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes).....2002..	X	5 111
	.....1997..	X	N
33451501	Electrical instrument mechanisms and meter movements (including instrument relays).....2002..	X	1 472
	.....1997..	X	N
33422001	Electronic communication equipment.....2002..	X	144
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control).....2002..	X	900
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333513	Machine tool (metal forming types) manufacturing— Con.		
33299105	Ball bearings (mounted or unmounted) .....2002..	X	2 339
	.....1997..	X	9 014
33299103	Roller bearings (mounted or unmounted) .....2002..	X	2 496
	.....1997..	X	9 425
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	1 797
	.....1997..	X	15 816
32192001	Wood boxes, pallets, skids, and containers .....2002..	X	1 535
	.....1997..	X	3 851
33351503	Cutting tools for machine tools .....2002..	X	2 785
	.....1997..	X	15 831
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....2002..	X	189
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	674
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	102 355
	.....1997..	X	285 379
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	196 574
	.....1997..	X	168 017
333514	Special die and tool, die set, jig, and fixture manufacturing		
00900001	Total materials .....2002..	X	1 665 429
	.....1997..	X	1 679 008
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	81 066
	.....1997..	X	87 646
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	100 538
	.....1997..	X	113 706
33210000	Forgings .....2002..	X	4 218
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	85 661
	.....1997..	X	96 376
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	18 355
	.....1997..	X	30 869
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	355 280
	.....1997..	X	318 976
33120016	Steel sheet and strip (including tinplate) .....2002..	X	27 395
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	36 302
	.....1997..	X	40 773
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	12 872
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	8 830
	.....1997..	X	5 932
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	23 113
	.....1997..	X	14 243
33149200	Tungsten carbide metal powders .....2002..	X	24 432
	.....1997..	X	28 988
331000AC	All other metal powders .....2002..	X	2 495
	.....1997..	X	2 572
32799903	Industrial diamonds .....2002..	X	7 243
	.....1997..	X	8 892
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	17 853
	.....1997..	X	21 013
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	11 737
	.....1997..	X	18 993
00190090	Fluid power products .....2002..	X	25 223
	.....1997..	X	46 859
33351503	Cutting tools for machine tools .....2002..	X	32 487
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	444 034
	.....1997..	X	478 601
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	346 295
	.....1997..	X	364 569
333515	Cutting tool and machine tool accessory manufacturing		
00900001	Total materials .....2002..	X	1 129 348
	.....1997..	X	1 365 433
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	18 031
	.....1997..	X	37 492
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	46 956
	.....1997..	X	56 759
33210000	Forgings .....2002..	X	2 016
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	31 475
	.....1997..	X	50 575

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333515	Cutting tool and machine tool accessory manufacturing—Con.		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	5 954
		1997.. X	4 282
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	172 853
		1997.. X	283 838
33120016	Steel sheet and strip (including tinplate)	2002.. X	7 034
		1997.. X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	30 182
		1997.. X	25 244
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	1 726
		1997.. X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	6 484
		1997.. X	6 922
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	13 261
		1997.. X	7 697
33149200	Tungsten carbide metal powders	2002.. X	196 043
		1997.. X	267 727
331000AC	All other metal powders	2002.. X	3 174
		1997.. X	8 607
32799903	Industrial diamonds	2002.. X	30 975
		1997.. X	40 395
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	11 063
		1997.. X	19 222
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	2002.. X	38 655
		1997.. X	56 985
00190090	Fluid power products	2002.. X	12 989
		1997.. X	29 673
33351503	Cutting tools for machine tools	2002.. X	37 362
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	218 575
		1997.. X	236 146
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	244 540
		1997.. X	233 869
333516	Rolling mill machinery and equipment manufacturing		
00900001	Total materials	2002.. X	204 741
		1997.. X	298 183
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	4 229
		1997.. X	9 322
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	D
		1997.. X	7 715
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	724
		1997.. X	1 735
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	2 300
		1997.. X	3 733
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	2 418
		1997.. X	3 471
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	479
		1997.. X	4 345
33200051	Other fabricated metal products (excluding fluid power products and forgings)	2002.. X	17 966
		1997.. X	N
33210000	Forgings	2002.. X	D
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	11 690
		1997.. X	12 706
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	D
		1997.. X	1 349
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	15 333
		1997.. X	23 947
33120016	Steel sheet and strip (including tinplate)	2002.. X	1 347
		1997.. X	N
33410001	Electronic computing equipment	2002.. X	D
		1997.. X	N
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	2002.. X	2 115
		1997.. X	3 370
33120092	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	1 788
		1997.. X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	37
		1997.. X	104
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	2002.. X	125
		1997.. X	143
33531217	Other fractional horsepower electric motors (less than 1 hp)	2002.. X	D
		1997.. X	D
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X	D
		1997.. X	12 328

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333516	Rolling mill machinery and equipment manufacturing—Con.		
001900B1	Electrical transmission, distribution, and control equipment	X	D
	2002..	X	11 868
	1997..		
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	X	9
	2002..	X	3 399
	1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	D
	2002..	X	N
	1997..		
33531409	Numerical controls for metalworking machinery (excluding programmable)	X	D
	2002..	X	D
	1997..	X	
33531411	Programmable controllers for metalworking machinery	X	3 271
	2002..	X	5 129
	1997..		
33299105	Ball bearings (mounted or unmounted)	X	D
	2002..	X	9 582
	1997..		
33299103	Roller bearings (mounted or unmounted)	X	D
	2002..	X	5 694
	1997..		
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	11 959
	2002..	X	16 252
	1997..		
32192001	Wood boxes, pallets, skids, and containers	X	735
	2002..	X	1 076
	1997..		
33351503	Cutting tools for machine tools	X	2 123
	2002..	X	2 273
	1997..		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	D
	2002..	X	N
	1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	D
	2002..	X	N
	1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	D
	2002..	X	N
	1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	D
	2002..	X	N
	1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	D
	2002..	X	N
	1997..		
33422001	Electronic communication equipment	X	D
	2002..	X	N
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	56 113
	2002..	X	132 902
	1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	3 989
	2002..	X	23 481
	1997..		
333518	Other metalworking machinery manufacturing		
00900001	Total materials	X	990 631
	2002..	X	1 311 312
	1997..		
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	17 758
	2002..	X	25 918
	1997..		
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	11 474
	2002..	X	14 140
	1997..		
33399901	Fluid power filters (hydraulic and pneumatic)	X	1 084
	2002..	X	1 819
	1997..		
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	4 032
	2002..	X	5 471
	1997..		
33291207	Fluid power valves (hydraulic and pneumatic)	X	11 961
	2002..	X	14 767
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	11 092
	2002..	X	11 639
	1997..		
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	35 586
	2002..	X	N
	1997..		
33210000	Forgings	X	1 442
	2002..	X	N
	1997..		
33151001	Iron and steel castings (rough and semifinished)	X	33 406
	2002..	X	41 070
	1997..		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	2 781
	2002..	X	3 757
	1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	30 482
	2002..	X	30 806
	1997..		
33120016	Steel sheet and strip (including tinplate)	X	14 239
	2002..	X	N
	1997..		
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products)	X	5 987
	2002..	X	7 508
	1997..		
33120092	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 555
	2002..	X	N
	1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 951
	2002..	X	3 046
	1997..		
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	X	9 594
	2002..	X	15 133
	1997..		
33531217	Other fractional horsepower electric motors (less than 1 hp)	X	8 865
	2002..	X	2 737
	1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333518	Other metalworking machinery manufacturing—Con.		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	16 834
	.....2002..	X	20 268
	.....1997..	X	73 906
001900B1	Electrical transmission, distribution, and control equipment	X	85 359
	.....2002..	X	5 880
	.....1997..	X	7 026
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	X	2 593
	.....2002..	X	4 069
	.....1997..	X	20 433
33531411	Programmable controllers for metalworking machinery	X	23 346
	.....2002..	X	11 617
	.....1997..	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	2 075
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	N
	.....2002..	X	2 596
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	2 596
	.....2002..	X	N
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	7 141
	.....2002..	X	N
	.....1997..	X	N
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	3 574
	.....2002..	X	N
	.....1997..	X	N
33422001	Electronic communication equipment	X	8 881
	.....2002..	X	N
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	1 843
	.....2002..	X	N
	.....1997..	X	N
33299105	Ball bearings (mounted or unmounted)	X	8 770
	.....2002..	X	12 310
	.....1997..	X	5 984
33299103	Roller bearings (mounted or unmounted)	X	6 853
	.....2002..	X	
	.....1997..	X	
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	11 553
	.....2002..	X	14 465
	.....1997..	X	
32192001	Wood boxes, pallets, skids, and containers	X	3 219
	.....2002..	X	4 255
	.....1997..	X	6 890
33351503	Cutting tools for machine tools	X	10 251
	.....2002..	X	
	.....1997..	X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	11 175
	.....2002..	X	N
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	1 857
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	210 629
	.....2002..	X	458 073
	.....1997..	X	364 892
00971000	Materials, ingredients, containers, and supplies, nsk	X	487 226
	.....2002..	X	
	.....1997..	X	
333611	Turbine and turbine generator set units manufacturing		
00900001	Total materials	X	4 039 360
	.....2002..	X	2 501 640
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	83 577
	.....2002..	X	D
	.....1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	9 348
	.....2002..	X	D
	.....1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic)	X	39 839
	.....2002..	X	D
	.....1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	56 333
	.....2002..	X	D
	.....1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic)	X	87 941
	.....2002..	X	28 254
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	58 760
	.....2002..	X	49 428
	.....1997..	X	1 583
332000AC	Metal stampings	X	D
	.....2002..	X	D
	.....1997..	X	D
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	X	75 488
	.....2002..	X	28 802
	.....1997..	X	D
33200099	Fabricated structural metal products (excluding forgings)	X	D
	.....2002..	X	D
	.....1997..	X	D
33200079	All other fabricated metal products (excluding forgings, castings, pumps, motors, hydrostatic transmissions, cylinders, rotary actuators, filters, valves, and hose and tube fittings)	X	202 412
	.....2002..	X	182 209
	.....1997..	X	813 817
33211101	Iron and steel forgings	X	406 288
	.....2002..	X	D
	.....1997..	X	D
33211201	Nonferrous forgings	X	D
	.....2002..	X	676 310
	.....1997..	X	386 958
33151001	Iron and steel castings (rough and semifinished)	X	
	.....2002..	X	D
	.....1997..	X	3 025
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333611	Turbine and turbine generator set units manufacturing —Con.		
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	28 285 669
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	197 587 85 557
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	39 087 N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	42 040 37 986
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D
33631100	Pistons, piston rings, carburetors, and valves (intake and exhaust only)	2002.. X 1997.. X	D -
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	2002.. X 1997.. X	D D
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	D D
33361815	Injection fuel pumps	2002.. X 1997.. X	D N
33361817	Machined engine blocks	2002.. X 1997.. X	D N
33299105	Ball bearings (mounted or unmounted)	2002.. X 1997.. X	430 D
33299103	Roller bearings (mounted or unmounted)	2002.. X 1997.. X	D D
33361301	Plain bearings and bushings	2002.. X 1997.. X	D 26 770
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X 1997.. X	32 794 42 495
33361101	Turbines purchased for incorporation into turbine generator sets	2002.. X 1997.. X	D 12 467 12 654
33361103	Generators purchased for incorporation into turbine generator sets	2002.. X 1997.. X	6 130 D
33999103	Gaskets (all types), and packing and sealing devices	2002.. X 1997.. X	8 010 N
32610011	Fabricated plastics products (excluding gaskets)	2002.. X 1997.. X	670 D
32622001	Rubber and plastics hose and belting	2002.. X 1997.. X	D D
33351503	Cutting tools for machine tools	2002.. X 1997.. X	D 16 007 14 245
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	473 310 545 750
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	673 068 71 851
333612	Speed changer, industrial high-speed drive, and gear manufacturing		
00900001	Total materials	2002.. X 1997.. X	615 968 794 916
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	13 591 19 970
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X 1997.. X	12 464 37 765
33211103	Cold iron and steel forgings	2002.. X 1997.. X	13 796 23 960
33211111	Other iron and steel forgings	2002.. X 1997.. X	30 878 65 620
33211201	Nonferrous forgings	2002.. X 1997.. X	4 812 6 149
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	56 843 80 934
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X 1997.. X	15 319 24 076
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	42 455 88 629
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	D N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	12 752 40 740
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	6 022 12 314
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	3 079 N
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap)	2002.. X 1997.. X	2 142 3 487
33299105	Ball bearings (mounted or unmounted)	2002.. X 1997.. X	9 664 21 528

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333612	Speed changer, industrial high-speed drive, and gear manufacturing—Con.		
33299103	Roller bearings (mounted or unmounted) .....2002..	X	22 634
	.....1997..	X	41 914
33299107	Balls, rollers, cages, collars, races, and other antifriction bearing components and parts .....2002..	X	8 221
	.....1997..	X	6 021
33361305	Clutches, couplings, shafts, sprockets, and other mechanical power transmission equipment .....2002..	X	84 067
	.....1997..	X	77 653
33531207	Electric motors, generators, and parts .....2002..	X	28 654
	.....1997..	X	87 441
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	8 788
	.....1997..	X	6 419
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	2 137
	.....1997..	X	2 858
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	6 030
	.....1997..	X	12 423
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools) .....2002..	X	D
	.....1997..	X	7 685
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	107 125
	.....1997..	X	69 271
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	123 561
	.....1997..	X	58 059
333613	Mechanical power transmission equipment manufacturing		
00900001	Total materials .....2002..	X	951 920
	.....1997..	X	1 096 832
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	17 202
	.....1997..	X	27 506
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	92 471
	.....1997..	X	48 527
33211103	Cold iron and steel forgings .....2002..	X	38 875
	.....1997..	X	31 136
33211111	Other iron and steel forgings .....2002..	X	14 591
	.....1997..	X	16 520
33211201	Nonferrous forgings .....2002..	X	D
	.....1997..	X	420
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	113 092
	.....1997..	X	131 235
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	16 936
	.....1997..	X	21 052
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	107 753
	.....1997..	X	160 897
33120016	Steel sheet and strip (including tinplate) .....2002..	X	34 786
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	16 786
	.....1997..	X	35 125
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 118
	.....1997..	X	23 305
33100067	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	5 988
	.....1997..	X	N
00190060	Scrap, including iron, steel, aluminum and aluminum-base alloy (excluding home scrap) .....2002..	X	2 616
	.....1997..	X	9 007
33299105	Ball bearings (mounted or unmounted) .....2002..	X	14 753
	.....1997..	X	25 074
33299103	Roller bearings (mounted or unmounted) .....2002..	X	8 395
	.....1997..	X	17 562
33299107	Balls, rollers, cages, collars, races, and other antifriction bearing components and parts .....2002..	X	56 401
	.....1997..	X	26 175
33361305	Clutches, couplings, shafts, sprockets, and other mechanical power transmission equipment .....2002..	X	76 924
	.....1997..	X	153 318
33531207	Electric motors, generators, and parts .....2002..	X	8 221
	.....1997..	X	9 798
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	4 883
	.....1997..	X	11 559
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....2002..	X	2 541
	.....1997..	X	D
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	8 586
	.....1997..	X	16 800
33361809	Engines (diesel, semidiesel, gasoline, and other carburetor-type engines) .....2002..	X	D
	.....1997..	X	D
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools) .....2002..	X	D
	.....1997..	X	16 673
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	212 863
	.....1997..	X	226 249
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	85 574
	.....1997..	X	84 219

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333618	Other engine equipment manufacturing		
00900001	Total materials	X	11 166 185
	2002..	X	10 093 338
	1997..		
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	198 415
	2002..	X	474 655
	1997..		
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	D
	2002..	X	50 545
	1997..	X	99 302
33399901	Fluid power filters (hydraulic and pneumatic)	X	55 747
	2002..	X	
	1997..		
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	71 951
	2002..	X	40 671
	1997..		
33291207	Fluid power valves (hydraulic and pneumatic)	X	30 766
	2002..	X	18 535
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	195 463
	2002..	X	201 601
	1997..	X	41 541
332000AC	Metal stampings	X	154 453
	2002..	X	
	1997..		
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	X	D
	2002..	X	161 268
	1997..	X	38 460
33200099	Fabricated structural metal products (excluding forgings)	X	D
	2002..	X	
	1997..		
33200079	All other fabricated metal products (excluding forgings, castings, pumps, motors, hydrostatic transmissions, cylinders, rotary actuators, filters, valves, and hose and tube fittings)	X	290 800
	2002..	X	592 825
	1997..	X	486 026
33211101	Iron and steel forgings	X	558 185
	2002..	X	592
	1997..	X	D
33211201	Nonferrous forgings	X	813 612
	2002..	X	1 574 339
	1997..		
33151001	Iron and steel castings (rough and semifinished)	X	
	2002..	X	299 649
	1997..	X	747 609
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	
	2002..	X	70 895
	1997..	X	112 695
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	
	2002..	X	85 844
	1997..	X	76 962
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	18 642
	2002..	X	N
	1997..		
33120016	Steel sheet and strip (including tinplate)	X	
	2002..	X	25 697
	1997..	X	83 419
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
	2002..	X	4 495
	1997..	X	17 340
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
	2002..	X	
	1997..		
33631100	Pistons, piston rings, carburetors, and valves (intake and exhaust only)	X	398 234
	2002..	X	779 546
	1997..		
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	391 988
	2002..	X	628 838
	1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	D
	2002..	X	D
	1997..	X	
33361813	Turbochargers	X	277 450
	2002..	X	N
	1997..	X	
33361815	Injection fuel pumps	X	616 324
	2002..	X	N
	1997..		
33361817	Machined engine blocks	X	377 191
	2002..	X	N
	1997..	X	
33299105	Ball bearings (mounted or unmounted)	X	12 082
	2002..	X	18 127
	1997..	X	7 983
33299103	Roller bearings (mounted or unmounted)	X	23 206
	2002..	X	83 704
	1997..	X	68 181
33361301	Plain bearings and bushings	X	
	2002..	X	112 076
	1997..	X	262 801
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	
	2002..	X	
	1997..		
33361103	Generators purchased for incorporation into turbine generator sets	X	D
	2002..	X	D
	1997..	X	
33999103	Gaskets (all types), and packing and sealing devices	X	95 186
	2002..	X	N
	1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	61 371
	2002..	X	62 195
	1997..	X	44 953
32622001	Rubber and plastics hose and belting	X	54 819
	2002..	X	123 354
	1997..	X	59 843
33351503	Cutting tools for machine tools	X	
	2002..	X	5 074 420
	1997..	X	2 439 703
00970099	All other materials and components, parts, containers, and supplies	X	567 112
	2002..	X	551 460
	1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002..	X	
	1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333911	Pump and pumping equipment manufacturing		
00900001	Total materials	X	2 852 091
	1997 ..	X	2 888 966
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	81 929
	1997 ..	X	145 361
33291211	Fluid power valves, hose and tube fittings and assemblies	X	7 085
	1997 ..	X	29 210
00190089	Other fluid power products, hydraulic and pneumatic	X	1 833
	1997 ..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	53 432
	1997 ..	X	58 304
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	41 401
	1997 ..	X	75 840
33200099	Fabricated structural metal products (excluding forgings)	X	116 361
	1997 ..	X	126 327
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	45 623
	1997 ..	X	55 326
33211101	Iron and steel forgings	X	32 282
	1997 ..	X	39 186
33211201	Nonferrous forgings	X	3 775
	1997 ..	X	9 369
33151001	Iron and steel castings (rough and semifinished)	X	359 923
	1997 ..	X	380 128
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	29 177
	1997 ..	X	66 792
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	58 398
	1997 ..	X	115 989
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	90 963
	1997 ..	X	168 062
33120016	Steel sheet and strip (including tinplate)	X	22 797
	1997 ..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	40 442
	1997 ..	X	17 994
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	15 042
	1997 ..	X	26 177
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 224
	1997 ..	X	N
33361809	Engines (diesel, semidiesel, gasoline, and other carburetor-type engines)	X	37 758
	1997 ..	X	41 084
33531211	Fractional horsepower electric motors (less than 1 hp)	X	211 430
	1997 ..	X	248 326
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	202 414
	1997 ..	X	192 385
33299101	Ball and roller bearings (mounted or unmounted)	X	22 202
	1997 ..	X	38 173
32221001	Paperboard containers, boxes, and corrugated paperboard	X	34 566
	1997 ..	X	26 744
32600011	Fabricated rubber products (excluding gaskets)	X	41 464
	1997 ..	X	26 582
32610011	Fabricated plastics products (excluding gaskets)	X	104 767
	1997 ..	X	79 824
33999103	Gaskets (all types), and packing and sealing devices	X	66 633
	1997 ..	X	57 502
001900B1	Electrical transmission, distribution, and control equipment	X	61 252
	1997 ..	X	106 531
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	6 803
	1997 ..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	733 921
	1997 ..	X	461 913
00971000	Materials, ingredients, containers, and supplies, nsk	X	323 194
	1997 ..	X	295 837
333912	Air and gas compressor manufacturing		
00900001	Total materials	X	2 038 290
	1997 ..	X	2 330 334
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	23 300
	1997 ..	X	50 727
33291211	Fluid power valves, hose and tube fittings and assemblies	X	41 167
	1997 ..	X	29 493
00190089	Other fluid power products, hydraulic and pneumatic	X	30 265
	1997 ..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	44 093
	1997 ..	X	54 399
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	X	66 523
	1997 ..	X	53 812
33200099	Fabricated structural metal products (excluding forgings)	X	116 378
	1997 ..	X	159 426
33200051	Other fabricated metal products (excluding fluid power products and forgings)	X	109 051
	1997 ..	X	87 341
33211101	Iron and steel forgings	X	30 743
	1997 ..	X	32 285

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333912	Air and gas compressor manufacturing—Con.		
33211201	Nonferrous forgings	2002.. X 1997.. X	D D
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	133 668 188 855
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	33 887 45 762
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	4 839 D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	36 655 53 128
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	14 289 N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	9 796 16 981
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 7 393
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	6 959 N
33361809	Engines (diesel, semidiesel, gasoline, and other carburetor-type engines)	2002.. X 1997.. X	85 959 67 588
33531211	Fractional horsepower electric motors (less than 1 hp)	2002.. X 1997.. X	61 214 N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	55 170 204 082
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X 1997.. X	34 331 30 096
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	17 273 29 282
32600011	Fabricated rubber products (excluding gaskets)	2002.. X 1997.. X	8 786 17 165
32610011	Fabricated plastics products (excluding gaskets)	2002.. X 1997.. X	36 680 45 325
33999103	Gaskets (all types), and packing and sealing devices	2002.. X 1997.. X	38 465 30 119
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	97 451 87 487
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	15 130 N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	439 039 635 347
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	443 434 385 669
333913	Measuring and dispensing pump manufacturing		
00900001	Total materials	2002.. X 1997.. X	427 307 669 622
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	D D
33291211	Fluid power valves, hose and tube fittings and assemblies	2002.. X 1997.. X	2 960 10 899
00190089	Other fluid power products, hydraulic and pneumatic	2002.. X 1997.. X	D N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	9 156 16 477
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	2002.. X 1997.. X	D 5 398
33200099	Fabricated structural metal products (excluding forgings)	2002.. X 1997.. X	3 667 11 090
33200051	Other fabricated metal products (excluding fluid power products and forgings)	2002.. X 1997.. X	D D
33211101	Iron and steel forgings	2002.. X 1997.. X	D 489
33211201	Nonferrous forgings	2002.. X 1997.. X	D D
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	8 492 24 701
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	D 40 194
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D 1 308
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 8 826
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	D N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	1 270 1 789
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	253 666

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333913	Measuring and dispensing pump manufacturing— Con.		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D N
33361809	Engines (diesel, semidiesel, gasoline, and other carburetor- type engines)	2002.. X 1997.. X	D D
33531211	Fractional horsepower electric motors (less than 1 hp)	2002.. X 1997.. X	13 720 N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	490 5 912
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X 1997.. X	676 5 729
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	D 9 482
32600011	Fabricated rubber products (excluding gaskets)	2002.. X 1997.. X	D 6 584
32610011	Fabricated plastics products (excluding gaskets)	2002.. X 1997.. X	21 509 26 238
33999103	Gaskets (all types), and packing and sealing devices	2002.. X 1997.. X	2 694 7 612
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	D 24 655
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	D N
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	87 082 133 732
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	93 678 41 204
333921	Elevator and moving stairway manufacturing		
00900001	Total materials	2002.. X 1997.. X	956 027 800 507
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	35 802 29 275
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X 1997.. X	37 694 29 528
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	455 D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	7 438 7 533
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X 1997.. X	2 180 10 321
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	40 494 N
33211101	Iron and steel forgings	2002.. X 1997.. X	3 486 16 140
33211201	Nonferrous forgings	2002.. X 1997.. X	D 840
332000AC	Metal stampings	2002.. X 1997.. X	2 629 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	37 629 24 362
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	59 932 88 460
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	79 916 N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	19 041 24 673
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X 1997.. X	31 037 50 039
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	2002.. X 1997.. X	2 585 N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	11 468 11 709
33299105	Ball bearings (mounted or unmounted)	2002.. X 1997.. X	1 501 8 761
33299103	Roller bearings (mounted or unmounted)	2002.. X 1997.. X	D 4 728
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X 1997.. X	14 733 10 766
32622001	Rubber and plastics hose and belting	2002.. X 1997.. X	D 9 559
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X 1997.. X	949 4 685
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	1 711 7 679
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	15 724 N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333921	Elevator and moving stairway manufacturing—Con.		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	2 693
		1997.. X	N
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	56 367
		1997.. X	90 169
33591101	Storage batteries	2002.. X	55
		1997.. X	D
32621003	Pneumatic tires and inner tubes	2002.. X	470
		1997.. X	D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	7 046
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	328 795
		1997.. X	283 282
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	137 496
		1997.. X	85 154
333922	Conveyor and conveying equipment manufacturing		
00900001	Total materials	2002.. X	1 958 203
		1997.. X	2 367 018
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	16 852
		1997.. X	27 126
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	10 888
		1997.. X	29 339
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	1 296
		1997.. X	5 235
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	7 845
		1997.. X	9 766
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	14 813
		1997.. X	23 594
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	33 316
		1997.. X	5 423
33211101	Iron and steel forgings	2002.. X	31 209
		1997.. X	33 385
33211201	Nonferrous forgings	2002.. X	875
		1997.. X	1 220
332000AC	Metal stampings	2002.. X	31 664
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	53 698
		1997.. X	74 892
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	128 733
		1997.. X	234 275
33120016	Steel sheet and strip (including tinplate)	2002.. X	126 492
		1997.. X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X	30 915
		1997.. X	85 298
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X	63 760
		1997.. X	67 394
33361805	Gasoline and other carburetor engines	2002.. X	D
		1997.. X	540
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	2002.. X	23 032
		1997.. X	N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X	40 393
		1997.. X	N
33299105	Ball bearings (mounted or unmounted)	2002.. X	30 856
		1997.. X	71 998
33299103	Roller bearings (mounted or unmounted)	2002.. X	59 450
		1997.. X	55 875
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X	51 370
		1997.. X	81 612
32622001	Rubber and plastics hose and belting	2002.. X	53 989
		1997.. X	68 320
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	11 199
		1997.. X	10 603
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	1 081
		1997.. X	1 189
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	17 094
		1997.. X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	4 904
		1997.. X	N
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	59 856
		1997.. X	111 525
33591101	Storage batteries	2002.. X	D
		1997.. X	N
32621003	Pneumatic tires and inner tubes	2002.. X	3 834
		1997.. X	7 687
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	10 965
		1997.. X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333922	Conveyor and conveying equipment manufacturing— Con.		
00970099	All other materials and components, parts, containers, and supplies	2002.. X	672 818
		1997.. X	962 926
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	363 836
		1997.. X	397 796
333923	Overhead traveling crane, hoist, and monorail system manufacturing		
00900001	Total materials	2002.. X	1 687 917
		1997.. X	1 567 374
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	134 791
		1997.. X	146 852
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	48 738
		1997.. X	84 225
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	24 126
		1997.. X	23 394
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	9 652
		1997.. X	32 674
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	1 418
		1997.. X	3 031
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	30 280
		1997.. X	17 522
33200099	Fabricated structural metal products (excluding forgings)	2002.. X	140 244
		1997.. X	133 260
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.)	2002.. X	20 905
		1997.. X	N
33200011	All other fabricated metal products (excluding forgings, structural metal products, bolts, nuts, screws, rivets, washers, screw machine products, metal stampings, and wire products)	2002.. X	29 530
		1997.. X	N
332000AC	Metal stampings	2002.. X	D
		1997.. X	19 115
33211101	Iron and steel forgings	2002.. X	5 830
		1997.. X	N
33211201	Nonferrous forgings	2002.. X	147
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	91 939
		1997.. X	54 756
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	11 476
		1997.. X	8 817
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	85 240
		1997.. X	D
33120016	Steel sheet and strip (including tinplate)	2002.. X	12 193
		1997.. X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X	17 617
		1997.. X	22 692
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X	18 524
		1997.. X	25 047
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	9 646
		1997.. X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X	28 104
		1997.. X	N
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X	33 548
		1997.. X	68 854
32622001	Rubber and plastics hose and belting	2002.. X	6 400
		1997.. X	2 347
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	23 270
		1997.. X	N
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	64 104
		1997.. X	50 952
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X	13 552
		1997.. X	25 177
00970099	All other materials and components, parts, containers, and supplies	2002.. X	299 827
		1997.. X	588 157
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	507 684
		1997.. X	171 675
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing		
00900001	Total materials	2002.. X	3 139 809
		1997.. X	3 152 213
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	103 336
		1997.. X	160 655
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	94 547

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing—Con.		
		1997..	X 147 825
33399901	Fluid power filters (hydraulic and pneumatic)	2002..	X 11 100
		1997..	X 5 594
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002..	X 81 485
		1997..	X 43 186
33291207	Fluid power valves (hydraulic and pneumatic)	2002..	X 47 802
		1997..	X 58 882
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X 69 548
		1997..	X N
33211101	Iron and steel forgings	2002..	X 26 182
		1997..	X 60 415
33211201	Nonferrous forgings	2002..	X D
		1997..	X 3 509
332000AC	Metal stampings	2002..	X 82 466
		1997..	X N
33151001	Iron and steel castings (rough and semifinished)	2002..	X 150 854
		1997..	X 145 932
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002..	X 110 880
		1997..	X 350 314
33120016	Steel sheet and strip (including tinplate)	2002..	X 129 123
		1997..	X N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002..	X 88 547
		1997..	X 72 374
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002..	X 40 188
		1997..	X 103 571
33361805	Gasoline and other carburetor engines	2002..	X 275 701
		1997..	X 183 669
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	2002..	X 3 927
		1997..	X N
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002..	X 50 832
		1997..	X 62 347
33299105	Ball bearings (mounted or unmounted)	2002..	X 24 872
		1997..	X 22 350
33299103	Roller bearings (mounted or unmounted)	2002..	X 59 556
		1997..	X 51 747
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002..	X 65 938
		1997..	X 200 107
32622001	Rubber and plastics hose and belting	2002..	X 34 151
		1997..	X 38 102
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002..	X D
		1997..	X 37 620
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 2 514
		1997..	X 4 680
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 26 621
		1997..	X N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002..	X 6 132
		1997..	X N
001900B1	Electrical transmission, distribution, and control equipment	2002..	X 195 040
		1997..	X 201 074
33591101	Storage batteries	2002..	X 74 390
		1997..	X 9 804
32621003	Pneumatic tires and inner tubes	2002..	X 86 458
		1997..	X 36 377
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002..	X 25 927
		1997..	X N
00970099	All other materials and components, parts, containers, and supplies	2002..	X 724 043
		1997..	X 887 198
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 398 657
		1997..	X 264 881
333991	Power-driven handtool manufacturing		
00900001	Total materials	2002..	X 1 597 407
		1997..	X 1 368 054
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X 19 256
		1997..	X 88 854
33200051	Other fabricated metal products (excluding fluid power products and forgings)	2002..	X 134 188
		1997..	X N
33210000	Forgings	2002..	X 45 585
		1997..	X N
33151001	Iron and steel castings (rough and semifinished)	2002..	X 91 960
		1997..	X 52 980
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002..	X 92 071
		1997..	X 61 476
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002..	X 9 679
		1997..	X 11 663

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333991	Power-driven handtool manufacturing—Con.		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	24 583
	.....2002..	X	70 689
	.....1997..		
33120085	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	76 877
	.....2002..	X	25 686
	.....1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 347
	.....2002..	X	2 343
	.....1997..		
331000A3	Insulated copper wire and cable (excluding magnet wire)	X	15 103
	.....2002..	X	19 104
	.....1997..		
33100097	Magnet wire	X	26 317
	.....2002..	X	49 338
	.....1997..		
33531201	Electric motors and generators	X	146 180
	.....2002..	X	48 541
	.....1997..		
33591101	Storage batteries	X	D
	.....2002..	X	119 488
	.....1997..		
33299101	Ball and roller bearings (mounted or unmounted)	X	29 732
	.....2002..	X	50 042
	.....1997..		
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	D
	.....2002..	X	50 836
	.....1997..		
32610011	Fabricated plastics products (excluding gaskets)	X	120 090
	.....2002..	X	114 143
	.....1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	38 059
	.....2002..	X	43 284
	.....1997..		
001900A1	Packaging paper and plastics film, coated and laminated	X	22 491
	.....2002..	X	15 024
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	564 758
	.....2002..	X	459 813
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	17 955
	.....2002..	X	84 750
	.....1997..		
333992	Welding and soldering equipment manufacturing		
00900001	Total materials	X	1 591 726
	.....2002..	X	2 136 077
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	21 148
	.....2002..	X	55 584
	.....1997..		
33200095	Other fabricated metal products (excluding castings and forgings)	X	23 108
	.....2002..	X	108 491
	.....1997..		
33210000	Forgings	X	7 371
	.....2002..	X	N
	.....1997..		
33151001	Iron and steel castings (rough and semifinished)	X	D
	.....2002..	X	80 460
	.....1997..		
33152500	Copper and copper-base alloy castings (rough and semifinished)	X	4 689
	.....2002..	X	38 589
	.....1997..		
33152014	Other nonferrous metal castings, rough and semifinished (excluding copper and copper-base alloy)	X	10 555
	.....2002..	X	N
	.....1997..		
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	48 136
	.....2002..	X	49 329
	.....1997..		
33120016	Steel sheet and strip (including tinplate)	X	73 453
	.....2002..	X	N
	.....1997..		
33120025	Steel wire and wire products	X	62 758
	.....2002..	X	257 940
	.....1997..		
33120015	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, wire and wire products)	X	D
	.....2002..	X	102 657
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	60 646
	.....2002..	X	118 568
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	41 847
	.....2002..	X	N
	.....1997..		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	12 040
	.....2002..	X	N
	.....1997..		
331000A3	Insulated copper wire and cable (excluding magnet wire)	X	7 548
	.....2002..	X	29 839
	.....1997..		
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)	X	9 550
	.....2002..	X	18 765
	.....1997..		
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors	X	6 131
	.....2002..	X	5 307
	.....1997..		
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	D
	.....2002..	X	84 826
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	57 057
	.....2002..	X	118 926
	.....1997..		
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	X	42 250
	.....2002..	X	81 929
	.....1997..		
33451300	Pressure gauges	X	2 911
	.....2002..	X	25 684
	.....1997..		
33299105	Ball bearings (mounted or unmounted)	X	2 000
	.....2002..	X	8 486
	.....1997..		
33299103	Roller bearings (mounted or unmounted)	X	1 089
	.....2002..	X	3 110
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333992	Welding and soldering equipment manufacturing— Con.		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	36 384
33399903	Industrial robots purchased for fabrication with welding equipment	X	58 889
00970099	All other materials and components, parts, containers, and supplies	X	47 645
00971000	Materials, ingredients, containers, and supplies, nsk	X	35 403
333993	Packaging machinery manufacturing		
00900001	Total materials	X	884 460
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	600 815
00190086	Other fluid power products, hydraulic and pneumatic (excluding pumps, motors, and hydrostatic transmissions)	X	20 657
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	252 480
33299101	Ball and roller bearings (mounted or unmounted)	X	
33361303	Other mechanical power transmission equipment	X	1 455 240
33200005	Fabricated metal products, including forgings	X	1 779 001
33151001	Iron and steel castings (rough and semifinished)	X	9 679
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	28 573
33120031	Stainless steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	34 857
33120023	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	75 276
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	27 189
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	56 715
33531407	Relays and industrial controls (including programmable controllers) for drives, clutches, brakes, motors, etc.	X	22 011
33530000	Transformers (excluding electronic-type) and other electric power transmission and distribution equipment	X	46 321
33531201	Electric motors and generators	X	18 395
33399309	Purchased packaging machinery devices for incorporation into complete finished products	X	31 708
00190096	Other purchased devices for incorporation into complete finished products (excluding packaging machinery devices)	X	129 245
00970099	All other materials and components, parts, containers, and supplies	X	297 167
00971000	Materials, ingredients, containers, and supplies, nsk	X	50 831
333994	Industrial process furnace and oven manufacturing		31 675
00900001	Total materials	X	6 438
00190090	Fluid power products	X	19 413
33200005	Fabricated metal products, including forgings	X	17 033
33151001	Iron and steel castings (rough and semifinished)	X	55 714
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	14 723
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	42 141
33120016	Steel sheet and strip (including tinplate)	X	12 451
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 589
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	54 082
33531407	Relays and industrial controls (including programmable controllers) for drives, clutches, brakes, motors, etc.	X	54 303
33530000	Transformers (excluding electronic-type) and other electric power transmission and distribution equipment	X	182 261
33531201	Electric motors and generators	X	11 039
33399309	Purchased packaging machinery devices for incorporation into complete finished products	X	30 393
00190096	Other purchased devices for incorporation into complete finished products (excluding packaging machinery devices)	X	33 482
00970099	All other materials and components, parts, containers, and supplies	X	84 577
00971000	Materials, ingredients, containers, and supplies, nsk	X	59 179
333994	Industrial process furnace and oven manufacturing		198 813
00900001	Total materials	X	20 685
00190090	Fluid power products	X	30 400
33200005	Fabricated metal products, including forgings	X	436 337
33151001	Iron and steel castings (rough and semifinished)	X	384 859
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	492 774
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	128 913
33120016	Steel sheet and strip (including tinplate)	X	
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	572 360
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 180 320
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	19 663

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333994	Industrial process furnace and oven manufacturing— Con.		
001900B1	Electrical transmission, distribution, and control equipment 2002..	X	43 436
	1997..	X	151 769
33399400	Electric heating elements for industrial furnaces, ovens, and kilns 2002..	X	37 987
	1997..	X	38 858
00970099	All other materials and components, parts, containers, and supplies 2002..	X	113 302
	1997..	X	452 590
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	232 110
	1997..	X	155 258
333995	Fluid power cylinder and actuator manufacturing		
00900001	Total materials 2002..	X	1 115 613
	1997..	X	1 220 698
33399603	Fluid power pumps purchased for incorporation into manufactured products 2002..	X	12 246
	1997..	X	91 418
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	22 726
	1997..	X	89 083
33291901	Metal pipe, valves, and pipe fittings (excluding forgings) 2002..	X	10 319
	1997..	X	19 252
33200075	Other fabricated metal products (excluding forgings) 2002..	X	49 262
	1997..	X	157 031
33210000	Forgings 2002..	X	36 150
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished) 2002..	X	47 713
	1997..	X	83 654
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) 2002..	X	4 819
	1997..	X	14 376
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) 2002..	X	3 731
	1997..	X	17 322
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) 2002..	X	84 669
	1997..	X	186 331
33120016	Steel sheet and strip (including tinplate) 2002..	X	1 430
	1997..	X	N
33121000	Steel tubing 2002..	X	81 417
	1997..	X	114 279
33120061	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	29 584
	1997..	X	37 378
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) 2002..	X	23 099
	1997..	X	N
33100047	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	3 358
	1997..	X	18 653
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	849
	1997..	X	6 932
331000AA	Metal powders 2002..	X	116
	1997..	X	D
32410005	Lubricating and cutting oils 2002..	X	6 129
	1997..	X	6 558
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product 2002..	X	5 190
	1997..	X	N
33531201	Electric motors and generators 2002..	X	9 525
	1997..	X	19 953
33299105	Ball bearings (mounted or unmounted) 2002..	X	7 057
	1997..	X	3 069
33299103	Roller bearings (mounted or unmounted) 2002..	X	1 299
	1997..	X	D
33361301	Plain bearings and bushings 2002..	X	5 250
	1997..	X	9 745
33361200	Mechanical speed changers, gears, and industrial high-speed drives 2002..	X	4 781
	1997..	X	6 253
33999103	Gaskets (all types), and packing and sealing devices 2002..	X	25 353
	1997..	X	20 281
33351503	Cutting tools for machine tools 2002..	X	20 366
	1997..	X	27 308
00970099	All other materials and components, parts, containers, and supplies 2002..	X	418 386
	1997..	X	205 474
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	200 789
	1997..	X	62 093
333996	Fluid power pump and motor manufacturing		
00900001	Total materials 2002..	X	955 621
	1997..	X	1 029 642
33399603	Fluid power pumps purchased for incorporation into manufactured products 2002..	X	26 727
	1997..	X	76 252
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	64 697
	1997..	X	76 790
33291901	Metal pipe, valves, and pipe fittings (excluding forgings) 2002..	X	13 358
	1997..	X	19 794
33200075	Other fabricated metal products (excluding forgings) 2002..	X	58 955
	1997..	X	71 034

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333996	Fluid power pump and motor manufacturing—Con.		
33210000	Forgings .....2002..	X	26 865
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	63 195
	.....1997..	X	104 552
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	47 923
	.....1997..	X	25 666
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	3 041
	.....1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	23 205
	.....1997..	X	28 812
33120016	Steel sheet and strip (including tinplate) .....2002..	X	4 857
	.....1997..	X	N
33121000	Steel tubing .....2002..	X	D
	.....1997..	X	7 294
33120061	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 293
	.....1997..	X	67 790
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) .....2002..	X	7 974
	.....1997..	X	N
33100047	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	13 370
331000AA	Metal powders .....2002..	X	18 408
	.....1997..	X	12 248
32410005	Lubricating and cutting oils .....2002..	X	6 020
	.....1997..	X	7 769
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	809
	.....1997..	X	N
33531201	Electric motors and generators .....2002..	X	34 730
	.....1997..	X	45 855
33299105	Ball bearings (mounted or unmounted) .....2002..	X	9 531
	.....1997..	X	8 997
33299103	Roller bearings (mounted or unmounted) .....2002..	X	30 046
	.....1997..	X	20 597
33361301	Plain bearings and bushings .....2002..	X	5 110
	.....1997..	X	19 227
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	9 566
	.....1997..	X	11 411
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	12 453
	.....1997..	X	11 003
33351503	Cutting tools for machine tools .....2002..	X	20 545
	.....1997..	X	24 601
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	332 428
	.....1997..	X	172 557
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	122 160
	.....1997..	X	157 997
333997	Scale and balance (except laboratory) manufacturing		
00900001	Total materials .....2002..	X	260 456
	.....1997..	X	287 949
332000A9	Sheet metal products (excluding stampings) .....2002..	X	13 767
	.....1997..	X	13 149
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	3 678
	.....1997..	X	5 156
33200087	All other fabricated metal products (excluding forgings, castings, sheet metal products, bolts, nuts, screws, rivets, washers, and screw machine products) .....2002..	X	6 164
	.....1997..	X	D
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	5 238
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	1 535
	.....1997..	X	1 937
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 317
	.....1997..	X	24 917
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 911
	.....1997..	X	8 291
33120089	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	614
	.....1997..	X	10 621
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	10 671

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333997	Scale and balance (except laboratory) manufacturing—Con.		
	1997..	X	20 727
001900B6	Resistors, capacitors, transformers, transducers, and other electronic-type components	2002..	18 385
	1997..	X	46 701
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002..	10 097
	1997..	X	N
33531201	Electric motors and generators	2002..	2 965
	1997..	X	N
33531415	Industrial controls	2002..	1 435
	1997..	X	N
33411905	Purchased peripheral printers	2002..	2 435
	1997..	X	N
331000A7	Insulated wire and cable (including magnet wire)	2002..	3 865
	1997..	X	N
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	2002..	D
	1997..	X	6 578
001900B1	Electrical transmission, distribution, and control equipment	2002..	2 752
	1997..	X	4 226
32221001	Paperboard containers, boxes, and corrugated paperboard	2002..	3 373
	1997..	X	3 962
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.)	2002..	1 209
	1997..	X	N
33441900	Liquid crystal display screens (LCD), including LED	2002..	5 192
	1997..	X	N
32610011	Fabricated plastics products (excluding gaskets)	2002..	5 745
	1997..	X	6 258
32600011	Fabricated rubber products (excluding gaskets)	2002..	569
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	2002..	73 383
	1997..	X	93 925
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	56 977
	1997..	X	19 191
333999	All other miscellaneous general purpose machinery manufacturing		
00900001	Total materials	2002..	3 365 905
	1997..	X	3 145 151
33531201	Electric motors and generators	2002..	44 779
	1997..	X	68 488
001900B1	Electrical transmission, distribution, and control equipment	2002..	31 962
	1997..	X	71 977
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002..	48 443
	1997..	X	76 094
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002..	42 335
	1997..	X	44 002
33399901	Fluid power filters (hydraulic and pneumatic)	2002..	79 803
	1997..	X	80 233
33291207	Fluid power valves (hydraulic and pneumatic)	2002..	10 051
	1997..	X	24 590
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002..	45 702
	1997..	X	35 184
00190089	Other fluid power products, hydraulic and pneumatic	2002..	5 032
	1997..	X	39 615
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002..	18 472
	1997..	X	51 846
33299101	Ball and roller bearings (mounted or unmounted)	2002..	6 182
	1997..	X	26 167
33391101	Other pumps and pump parts, excluding fluid power (complete assemblies)	2002..	25 308
	1997..	X	50 619
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	61 921
	1997..	X	98 744
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments)	2002..	24 294
	1997..	X	66 496
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	2002..	39 035
	1997..	X	70 795
33200051	Other fabricated metal products (excluding fluid power products and forgings)	2002..	80 813
	1997..	X	142 812
33210000	Forgings	2002..	10 565
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	2002..	117 886
	1997..	X	150 053
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002..	26 568
	1997..	X	62 892
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002..	51 143
	1997..	X	131 054
33120016	Steel sheet and strip (including tinplate)	2002..	26 399
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	33 075
	1997..	X	58 253

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
333999	All other miscellaneous general purpose machinery manufacturing—Con.		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	25 833 N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	34 850 89 145
32212031	Filter paper	2002.. X 1997.. X	54 101 76 597
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	987 925 798 340
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	1 433 428 831 155
334111	Electronic computer manufacturing		
00900001	Total materials	2002.. X 1997.. X	24 679 426 35 182 603
33441103	Cathode ray tubes (CRT) and all other transmittal, industrial, and special purpose electron tubes (excluding X-ray)	2002.. X 1997.. X	1 801 D
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X 1997.. X	D 205 820
001900C3	Printed memory boards for electronic circuitry	2002.. X 1997.. X	2 406 997 1 264 260
001900C6	Printed peripheral controllers (graphic boards, drive controllers, etc.) for electronic circuitry	2002.. X 1997.. X	156 412 443 961
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry	2002.. X 1997.. X	3 759 190 2 915 193
001900C5	Printed communication boards (LAN boards, D/A and A/D converters, etc.) for electronic circuitry	2002.. X 1997.. X	262 585 307 132
001900D1	Other printed circuit boards (loaded boards, subassemblies, and modules) for electronic circuitry	2002.. X 1997.. X	417 891 280 173
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002.. X 1997.. X	163 878 548 761
33441400	Capacitors for electronic circuitry	2002.. X 1997.. X	D 62 276
33441500	Resistors for electronic circuitry	2002.. X 1997.. X	D 31 083
33441700	Connectors for electronic circuitry	2002.. X 1997.. X	D 80 715
33400017	Battery packs for electronic circuitry	2002.. X 1997.. X	18 126 34 362
001900D2	Other power supply units for electronic circuitry	2002.. X 1997.. X	217 132 376 893
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes	2002.. X 1997.. X	D D
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	4 200 37 110
33232201	Steel, aluminum, and other metal electronic enclosures	2002.. X 1997.. X	112 018 394 602
32619901	Plastics electronic enclosures	2002.. X 1997.. X	28 187 123 877
33200003	Sheet metal products, including stampings (excluding enclosures)	2002.. X 1997.. X	17 511 21 180
33200017	All other fabricated metal products (excluding forgings)	2002.. X 1997.. X	768 D
33210000	Forgings	2002.. X 1997.. X	D N
33100035	Castings, rough and semifinished	2002.. X 1997.. X	480 2 165
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 927
331000A9	Insulated copper wire and cable (including magnet wire)	2002.. X 1997.. X	D 50 014
32610031	Fabricated plastics products (excluding enclosures)	2002.. X 1997.. X	D 2 877
33461100	Purchased software	2002.. X 1997.. X	276 578 225 883
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	2002.. X 1997.. X	D 7 604
33531201	Electric motors and generators	2002.. X 1997.. X	D 4 053
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard)	2002.. X 1997.. X	45 926 73 806
33411101	Purchased computers	2002.. X 1997.. X	1 332 643 4 047 314
33411200	Purchased peripheral storage devices	2002.. X 1997.. X	3 393 870 2 866 679
33411300	Purchased computer terminals	2002.. X 1997.. X	506 915 D
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.)	2002.. X 1997.. X	864 261 590 925

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334111	Electronic computer manufacturing—Con.		
33411905	Purchased peripheral printers 2002..	X	17 283
	1997..	X	37 072
33410007	Other purchased electronic computing and peripheral equipment 2002..	X	D
	1997..	X	1 635 245
00970099	All other materials and components, parts, containers, and supplies 2002..	X	3 479 210
	1997..	X	6 497 488
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	3 103 785
	1997..	X	9 724 451
334112	Computer storage device manufacturing		
00900001	Total materials 2002..	X	3 450 105
	1997..	X	6 148 089
33441103	Cathode ray tubes (CRT) and all other transmittal, industrial, and special purpose electron tubes (excluding X-ray) 2002..	X	D
	1997..	X	D
33441200	Printed circuit boards (without inserted components) for electronic circuitry 2002..	X	41 756
	1997..	X	45 560
001900C3	Printed memory boards for electronic circuitry 2002..	X	20 096
	1997..	X	19 729
001900C6	Printed peripheral controllers (graphic boards, drive controllers, etc.) for electronic circuitry 2002..	X	21 640
	1997..	X	85 543
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry 2002..	X	D
	1997..	X	27 333
001900C5	Printed communication boards (LAN boards, D/A and A/D converters, etc.) for electronic circuitry 2002..	X	D
	1997..	X	823
001900D1	Other printed circuit boards (loaded boards, subassemblies, and modules) for electronic circuitry 2002..	X	D
	1997..	X	33 687
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry 2002..	X	227 144
	1997..	X	84 010
33441400	Capacitors for electronic circuitry 2002..	X	D
	1997..	X	1 960
33441500	Resistors for electronic circuitry 2002..	X	1 664
	1997..	X	1 271
33441700	Connectors for electronic circuitry 2002..	X	1 605
	1997..	X	4 465
33400017	Battery packs for electronic circuitry 2002..	X	719
	1997..	X	1 885
001900D2	Other power supply units for electronic circuitry 2002..	X	37 165
	1997..	X	35 715
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes 2002..	X	D
	1997..	X	D
001900B1	Electrical transmission, distribution, and control equipment 2002..	X	D
	1997..	X	4 258
33232201	Steel, aluminum, and other metal electronic enclosures 2002..	X	56 852
	1997..	X	59 331
32619901	Plastics electronic enclosures 2002..	X	1 191
	1997..	X	D
33200003	Sheet metal products, including stampings (excluding enclosures) 2002..	X	8 035
	1997..	X	52 558
33200017	All other fabricated metal products (excluding forgings) 2002..	X	D
	1997..	X	D
33100035	Castings, rough and semifinished 2002..	X	D
	1997..	X	6 184
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	D
331000A9	Insulated copper wire and cable (including magnet wire) 2002..	X	11 185
	1997..	X	7 514
32610031	Fabricated plastics products (excluding enclosures) 2002..	X	D
	1997..	X	D
33461100	Purchased software 2002..	X	D
	1997..	X	D
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices 2002..	X	D
	1997..	X	D
33531201	Electric motors and generators 2002..	X	14 457
	1997..	X	48 936
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard) 2002..	X	29 285
	1997..	X	7 417
33411101	Purchased computers 2002..	X	D
	1997..	X	D
33411200	Purchased peripheral storage devices 2002..	X	893 523
	1997..	X	2 204 984
33411300	Purchased computer terminals 2002..	X	D
	1997..	X	D
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.) 2002..	X	1 532
	1997..	X	D
33411905	Purchased peripheral printers 2002..	X	D
	1997..	X	31
33410007	Other purchased electronic computing and peripheral equipment 2002..	X	258 516
	1997..	X	50 723

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334112	Computer storage device manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	975 877
	.....2002..	X	1 060 374
	.....1997..	X	448 234
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 730 041
	.....2002..	X	
	.....1997..	X	
334113	Computer terminal manufacturing		
00900001	Total materials	X	154 822
	.....2002..	X	842 710
	.....1997..	X	
33441103	Cathode ray tubes (CRT) and all other transmittal, industrial, and special purpose electron tubes (excluding X-ray)	X	D
	.....2002..	X	85 218
	.....1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	510
	.....2002..	X	1 509
	.....1997..	X	D
001900C3	Printed memory boards for electronic circuitry	X	D
	.....2002..	X	D
	.....1997..	X	
001900C6	Printed peripheral controllers (graphic boards, drive controllers, etc.) for electronic circuitry	X	D
	.....2002..	X	1 953
	.....1997..	X	
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry	X	D
	.....2002..	X	D
	.....1997..	X	
001900C5	Printed communication boards (LAN boards, D/A and A/D converters, etc.) for electronic circuitry	X	D
	.....2002..	X	D
	.....1997..	X	
001900D1	Other printed circuit boards (loaded boards, subassemblies, and modules) for electronic circuitry	X	D
	.....2002..	X	D
	.....1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	6 883
	.....2002..	X	8 486
	.....1997..	X	3 939
33441400	Capacitors for electronic circuitry	X	3 722
	.....2002..	X	
	.....1997..	X	
33441500	Resistors for electronic circuitry	X	323
	.....2002..	X	800
	.....1997..	X	2 294
33441700	Connectors for electronic circuitry	X	2 370
	.....2002..	X	D
	.....1997..	X	D
33400017	Battery packs for electronic circuitry	X	D
	.....2002..	X	269
	.....1997..	X	D
001900D2	Other power supply units for electronic circuitry	X	D
	.....2002..	X	
	.....1997..	X	
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes	X	D
	.....2002..	X	3 581
	.....1997..	X	
001900B1	Electrical transmission, distribution, and control equipment	X	D
	.....2002..	X	D
	.....1997..	X	
33232201	Steel, aluminum, and other metal electronic enclosures	X	393
	.....2002..	X	4 499
	.....1997..	X	D
32619901	Plastics electronic enclosures	X	9 884
	.....2002..	X	
	.....1997..	X	
33200003	Sheet metal products, including stampings (excluding enclosures)	X	4 020
	.....2002..	X	12 748
	.....1997..	X	D
33100035	Castings, rough and semifinished	X	94
	.....2002..	X	
	.....1997..	X	
331000A9	Insulated copper wire and cable (including magnet wire)	X	D
	.....2002..	X	886
	.....1997..	X	198
32610031	Fabricated plastics products (excluding enclosures)	X	2 319
	.....2002..	X	D
	.....1997..	X	1 103
33461100	Purchased software	X	
	.....2002..	X	
	.....1997..	X	
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	X	D
	.....2002..	X	D
	.....1997..	X	
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard)	X	413
	.....2002..	X	3 588
	.....1997..	X	
33411101	Purchased computers	X	D
	.....2002..	X	D
	.....1997..	X	
33411200	Purchased peripheral storage devices	X	D
	.....2002..	X	—
	.....1997..	X	
33411300	Purchased computer terminals	X	D
	.....2002..	X	9 893
	.....1997..	X	
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.)	X	579
	.....2002..	X	21 785
	.....1997..	X	D
33411905	Purchased peripheral printers	X	D
	.....2002..	X	
	.....1997..	X	
33410007	Other purchased electronic computing and peripheral equipment	X	D
	.....2002..	X	21 047
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	77 075
	.....2002..	X	138 702
	.....1997..	X	29 521
00971000	Materials, ingredients, containers, and supplies, nsk	X	318 091
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334119	Other computer peripheral equipment manufacturing		
00900001	Total materials	X	6 440 625
	1997 ..	X	13 823 609
33441103	Cathode ray tubes (CRT) and all other transmittal, industrial, and special purpose electron tubes (excluding X-ray)	X	28 969
	1997 ..	X	30 676
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	57 753
	2002 ..	X	426 994
	1997 ..	X	142 598
001900C3	Printed memory boards for electronic circuitry	X	478 641
	2002 ..	X	42 137
	1997 ..	X	154 259
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry	X	161 107
	2002 ..	X	56 226
	1997 ..	X	D
001900C5	Printed communication boards (LAN boards, D/A and A/D converters, etc.) for electronic circuitry	X	20 605
	2002 ..	X	D
	1997 ..	X	64 336
001900D1	Other printed circuit boards (loaded boards, subassemblies, and modules) for electronic circuitry	X	493 268
	2002 ..	X	66 632
	1997 ..	X	601 146
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	12 496
	2002 ..	X	48 999
	1997 ..	X	D
33441500	Resistors for electronic circuitry	X	36 348
	2002 ..	X	63 730
	1997 ..	X	121 896
33441700	Connectors for electronic circuitry	X	D
	2002 ..	X	5 627
	1997 ..	X	31 708
33400017	Battery packs for electronic circuitry	X	121 428
	2002 ..	X	71 142
	1997 ..	X	188 331
001900B1	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes	X	D
	2002 ..	X	23 775
	1997 ..	X	23 509
001900B1	Electrical transmission, distribution, and control equipment	X	120 327
	2002 ..	X	33 966
	1997 ..	X	105 777
33232201	Steel, aluminum, and other metal electronic enclosures	X	107 661
	2002 ..	X	112 616
	1997 ..	X	14 559
32619901	Plastics electronic enclosures	X	149 266
	2002 ..	X	D
	1997 ..	X	N
33200003	Sheet metal products, including stampings (excluding enclosures)	X	D
	2002 ..	X	12 101
	1997 ..	X	D
33200017	All other fabricated metal products (excluding forgings)	X	32 840
	2002 ..	X	57 882
	1997 ..	X	18 183
33210000	Forgings	X	227 307
	2002 ..	X	71 229
	1997 ..	X	244 144
33100035	Castings, rough and semifinished	X	9 228
	2002 ..	X	12 029
	1997 ..	X	842
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 603
	2002 ..	X	23 350
	1997 ..	X	306 099
331000A9	Insulated copper wire and cable (including magnet wire)	X	18 249
	2002 ..	X	72 450
	1997 ..	X	D
32610031	Fabricated plastics products (excluding enclosures)	X	269 768
	2002 ..	X	D
	1997 ..	X	D
33461100	Purchased software	X	24 452
	2002 ..	X	30 366
	1997 ..	X	17 397
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	X	27 472
	2002 ..	X	44 268
	1997 ..	X	311 332
33531201	Electric motors and generators	X	264 328
	2002 ..	X	D
	1997 ..	X	93 296
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard)	X	2 511 547
	2002 ..	X	4 996 942
	1997 ..	X	1 560 015
33411101	Purchased computers	X	3 870 338
	2002 ..	X	
	1997 ..	X	
33411200	Purchased peripheral storage devices	X	
	2002 ..	X	
	1997 ..	X	
33411300	Purchased computer terminals	X	
	2002 ..	X	
	1997 ..	X	
33411903	Purchased peripheral input devices (including keyboards, mouse devices, track balls, etc.)	X	
	2002 ..	X	
	1997 ..	X	
33411905	Purchased peripheral printers	X	
	2002 ..	X	
	1997 ..	X	
33410007	Other purchased electronic computing and peripheral equipment	X	
	2002 ..	X	
	1997 ..	X	
00970099	All other materials and components, parts, containers, and supplies	X	
	2002 ..	X	
	1997 ..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002 ..	X	
	1997 ..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334210	Telephone apparatus manufacturing		
00900001	Total materials .....2002..	X	10 785 947
	.....1997..	X	13 800 381
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	248 022
	.....1997..	X	442 757
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	776 655
	.....1997..	X	615 696
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	682 139
	.....1997..	X	1 117 354
33441400	Capacitors for electronic circuitry .....2002..	X	63 471
	.....1997..	X	102 111
33441500	Resistors for electronic circuitry .....2002..	X	39 188
	.....1997..	X	70 207
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	D
	.....1997..	X	1 021 652
33422001	Electronic communication equipment .....2002..	X	3 013 291
	.....1997..	X	1 620 566
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	D
	.....1997..	X	22 562
33411001	Electronic computer equipment .....2002..	X	D
	.....1997..	X	N
33411200	Purchased peripheral storage devices .....2002..	X	2 131
	.....1997..	X	N
33593101	Current-carrying wiring devices .....2002..	X	25 752
	.....1997..	X	49 021
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	50 325
	.....1997..	X	122 553
33431005	Loudspeakers, microphones, and tuners (all types) .....2002..	X	D
	.....1997..	X	51 007
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	X	8 391
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	31 485
	.....1997..	X	80 040
332000A9	Sheet metal products (excluding stampings) .....2002..	X	50 011
	.....1997..	X	107 985
332000AC	Metal stampings .....2002..	X	18 037
	.....1997..	X	34 890
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	17 583
	.....1997..	X	D
33200033	Other fabricated metal products (excluding forgings) .....2002..	X	16 295
	.....1997..	X	D
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	2 764
	.....1997..	X	15 650
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	23 942
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 614
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	408
	.....1997..	X	483
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	67 013
	.....1997..	X	32 435
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	3 540 672
	.....1997..	X	2 277 814
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 140 697
	.....1997..	X	5 674 872
334220	Radio and television broadcasting and wireless communications equipment manufacturing		
00900001	Total materials .....2002..	X	15 859 274
	.....1997..	X	16 768 327
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	305 637
	.....1997..	X	1 028 338
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	439 815
	.....1997..	X	656 221
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	445 744
	.....1997..	X	2 589 043
33441400	Capacitors for electronic circuitry .....2002..	X	45 713
	.....1997..	X	132 281
33441500	Resistors for electronic circuitry .....2002..	X	25 532
	.....1997..	X	69 323
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	207 144
	.....1997..	X	1 320 595
33422001	Electronic communication equipment .....2002..	X	4 448 563
	.....1997..	X	2 008 924
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	89 732

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334220	Radio and television broadcasting and wireless communications equipment manufacturing—Con.		
	1997..	X	47 454
33411001	Electronic computer equipment.....	2002..	X 81 330
	1997..	X	N
33411200	Purchased peripheral storage devices.....	2002..	X 38 495
	1997..	X	N
33593101	Current-carrying wiring devices.....	2002..	X 32 174
	1997..	X	74 969
331000A7	Insulated wire and cable (including magnet wire)	2002..	X 69 442
	1997..	X	554 232
33431005	Loudspeakers, microphones, and tuners (all types)	2002..	X 7 347
	1997..	X	10 456
33531211	Fractional horsepower electric motors (less than 1 hp)	2002..	X D
	1997..	X	13 010
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X 12 030
	1997..	X	14 463
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....	2002..	X 46 787
	1997..	X	49 023
332000A9	Sheet metal products (excluding stampings)	2002..	X 74 356
	1997..	X	359 269
332000AC	Metal stampings.....	2002..	X 13 934
	1997..	X	35 050
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X 41 793
	1997..	X	74 225
33200033	Other fabricated metal products (excluding forgings)	2002..	X 48 258
	1997..	X	236 647
33210000	Forgings	2002..	X D
	1997..	X	N
33100035	Castings, rough and semifinished.....	2002..	X 15 621
	1997..	X	110 235
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 52 955
	1997..	X	29 880
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 25 835
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X 12 023
	1997..	X	12 049
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002..	X 28 317
	1997..	X	43 227
00970099	All other materials and components, parts, containers, and supplies	2002..	X 4 872 800
	1997..	X	2 021 940
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X 4 370 832
	1997..	X	5 277 473
334290	Other communications equipment manufacturing		
00900001	Total materials	2002..	X 1 930 048
	1997..	X	1 368 511
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002..	X 72 001
	1997..	X	145 206
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	2002..	X 49 137
	1997..	X	53 968
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002..	X 59 887
	1997..	X	68 814
33441400	Capacitors for electronic circuitry	2002..	X 24 840
	1997..	X	19 783
33441500	Resistors for electronic circuitry	2002..	X 12 789
	1997..	X	14 767
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	2002..	X 42 211
	1997..	X	32 335
33422001	Electronic communication equipment.....	2002..	X 91 081
	1997..	X	58 623
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	2002..	X 13 892
	1997..	X	12 108
33411001	Electronic computer equipment.....	2002..	X 13 521
	1997..	X	N
33411200	Purchased peripheral storage devices.....	2002..	X 159
	1997..	X	N
33593101	Current-carrying wiring devices.....	2002..	X 2 434
	1997..	X	13 591
331000A7	Insulated wire and cable (including magnet wire)	2002..	X 12 183
	1997..	X	19 339
33431005	Loudspeakers, microphones, and tuners (all types)	2002..	X 13 292
	1997..	X	15 759
33531211	Fractional horsepower electric motors (less than 1 hp)	2002..	X D
	1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	X 4 200
	1997..	X	D
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....	2002..	X 23 377
	1997..	X	60 525
332000A9	Sheet metal products (excluding stampings)	2002..	X 22 895
	1997..	X	40 618
332000AC	Metal stampings.....	2002..	X 5 372

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334290	Other communications equipment manufacturing— Con.		
	1997..	X	10 038
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	10 779
	1997..	X	24 540
33200033	Other fabricated metal products (excluding forgings)	X	14 365
	1997..	X	63 211
33210000	Forgings	X	D
	1997..	X	N
33100035	Castings, rough and semifinished	X	20 199
	1997..	X	19 379
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 196
	1997..	X	5 635
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	9 879
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	464
	1997..	X	971
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	13 567
	1997..	X	11 805
00970099	All other materials and components, parts, containers, and supplies	X	788 053
	1997..	X	208 774
00971000	Materials, ingredients, containers, and supplies, nsk	X	597 105
	1997..	X	452 387
334310	Audio and video equipment manufacturing		
00900001	Total materials	X	4 726 159
	1997..	X	5 336 937
33172000	Cabinets (wood, metal, and plastics)	X	221 008
	1997..	X	258 430
33431003	Tuners	X	17 927
	1997..	X	47 708
33431007	Speakers and speaker systems	X	169 561
	1997..	X	253 561
33441101	Cathode ray picture tubes	X	997 487
	1997..	X	986 893
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	162 639
	1997..	X	184 160
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	375 164
	1997..	X	126 799
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	108 930
	1997..	X	165 807
33441400	Capacitors for electronic circuitry	X	73 969
	1997..	X	86 026
33441500	Resistors for electronic circuitry	X	15 955
	1997..	X	28 848
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	254 970
	1997..	X	139 771
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	224 692
	1997..	X	180 127
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	43 638
	1997..	X	67 042
33593101	Current-carrying wiring devices	X	62 131
	1997..	X	273 551
332000AC	Metal stampings	X	14 252
	1997..	X	50 373
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	16 047
	1997..	X	25 840
33200085	All other fabricated metal products (excluding forgings)	X	37 832
	1997..	X	22 394
33210000	Forgings	X	D
	1997..	X	N
33100035	Castings, rough and semifinished	X	7 749
	1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 549
	1997..	X	9 124
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	1997..	X	D
331000A7	Insulated wire and cable (including magnet wire)	X	28 777
	1997..	X	32 662
33441900	Liquid crystal display screens (LCD), including LED	X	33 653
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	419 111
	1997..	X	531 450
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 426 184
	1997..	X	1 847 264

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334411	Electron tube manufacturing		
00900001	Total materials .....2002..	X	1 374 481
	.....1997..	X	2 088 919
32721203	Tube blanks .....2002..	X	2 602
	.....1997..	X	538 666
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	D
	.....1997..	X	2 658
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	8 994
	.....1997..	X	13 529
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	11 757
	.....1997..	X	D
33441400	Capacitors for electronic circuitry .....2002..	X	4 878
	.....1997..	X	1 584
33441500	Resistors for electronic circuitry .....2002..	X	D
	.....1997..	X	1 364
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	108 619
	.....1997..	X	D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) .....2002..	X	4 664
	.....1997..	X	11 424
33141917	Doped chemicals and other doped materials for electronic use .....2002..	X	D
	.....1997..	X	D
33111107	Ferrites (powder and paste) .....2002..	X	D
	.....1997..	X	D
331000AA	Metal powders .....2002..	X	3 121
	.....1997..	X	4 448
33411001	Electronic computer equipment .....2002..	X	D
	.....1997..	X	N
33593101	Current-carrying wiring devices .....2002..	X	818
	.....1997..	X	1 164
33422001	Electronic communication equipment .....2002..	X	D
	.....1997..	X	211
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	D
	.....1997..	X	D
33451503	All other miscellaneous electrical measuring instruments and parts .....2002..	X	D
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	52 120
	.....1997..	X	N
33431005	Loudspeakers, microphones, and tuners (all types) .....2002..	X	D
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors) .....2002..	X	563 232
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control) .....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	D
	.....1997..	X	337
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	6 444
	.....1997..	X	1 049
332000A9	Sheet metal products (excluding stampings) .....2002..	X	D
	.....1997..	X	45 272
332000AC	Metal stampings .....2002..	X	33 731
	.....1997..	X	71 924
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	24 447
	.....1997..	X	6 253
33200033	Other fabricated metal products (excluding forgings) .....2002..	X	90 401
	.....1997..	X	41 573
33210000	Forgings .....2002..	X	233
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	13 795
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	2 214
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	5 696
	.....1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 128
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	1 235
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	3 674
	.....1997..	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	4 152
	.....1997..	X	1 780
32611305	Resists (photosensitive resin films applied to the surface of a wafer) .....2002..	X	D
	.....1997..	X	D
32512005	Commodity gases .....2002..	X	27 312
	.....1997..	X	4 114
32599217	Masks .....2002..	X	16
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334411	Electron tube manufacturing—Con.		
32510074	Solvents.....2002..	X	D
	.....1997..	X	N
32561000	Cleaning compounds.....2002..	X	D
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	264 518
	.....1997..	X	496 788
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	32 763
	.....1997..	X	670 584
334412	Bare printed circuit board manufacturing		
00900001	Total materials.....2002..	X	2 554 120
	.....1997..	X	3 075 742
32721203	Tube blanks.....2002..	X	D
	.....1997..	X	1 659
33441200	Printed circuit boards (without inserted components) for electronic circuitry.....2002..	X	312 456
	.....1997..	X	522 536
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components).....2002..	X	185 106
	.....1997..	X	104 155
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry.....2002..	X	272 903
	.....1997..	X	122 456
33441400	Capacitors for electronic circuitry.....2002..	X	70 637
	.....1997..	X	37 014
33441500	Resistors for electronic circuitry.....2002..	X	63 809
	.....1997..	X	25 880
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes).....2002..	X	76 403
	.....1997..	X	117 694
32518835	Silicon, hyperpure.....2002..	X	D
	.....1997..	X	D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.).....2002..	X	62 861
	.....1997..	X	49 824
33141917	Doped chemicals and other doped materials for electronic use.....2002..	X	34 435
	.....1997..	X	34 373
33111107	Ferrites (powder and paste).....2002..	X	D
	.....1997..	X	138
331000AA	Metal powders.....2002..	X	826
	.....1997..	X	502
33411001	Electronic computer equipment.....2002..	X	9 927
	.....1997..	X	N
33593101	Current-carrying wiring devices.....2002..	X	5 961
	.....1997..	X	2 636
33422001	Electronic communication equipment.....2002..	X	D
	.....1997..	X	D
33451501	Electrical instrument mechanisms and meter movements (including instrument relays).....2002..	X	3 986
	.....1997..	X	4 193
33451503	All other miscellaneous electrical measuring instruments and parts.....2002..	X	1 671
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp).....2002..	X	2 906
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	11 415
	.....1997..	X	N
33431005	Loudspeakers, microphones, and tuners (all types).....2002..	X	54
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors).....2002..	X	80 723
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control).....2002..	X	843
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.....2002..	X	26 749
	.....1997..	X	15 768
32610011	Fabricated plastics products (excluding gaskets).....2002..	X	50 157
	.....1997..	X	80 640
332000A9	Sheet metal products (excluding stampings).....2002..	X	31 490
	.....1997..	X	10 911
332000AC	Metal stampings.....2002..	X	2 026
	.....1997..	X	3 337
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	8 746
	.....1997..	X	3 222
33200033	Other fabricated metal products (excluding forgings).....2002..	X	18 991
	.....1997..	X	16 668
33100035	Castings, rough and semifinished.....2002..	X	D
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	49 877
	.....1997..	X	44 364
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products).....2002..	X	3 651
1997..	X	N
331000A7	Insulated wire and cable (including magnet wire).....2002..	X	5 930

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334412	Bare printed circuit board manufacturing—Con.		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	1997.. X	10 025
		2002.. X	11 891
32611305	Resists (photosensitive resin films applied to the surface of a wafer)	1997.. X	9 169
		2002.. X	44 373
32512005	Commodity gases	1997.. X	54 814
		2002.. X	4 887
32518843	Specialty gases	1997.. X	897
		2002.. X	1 264
32599217	Masks	1997.. X	385
		2002.. X	2 330
33141957	Silicon chips	1997.. X	6 719
		2002.. X	D
32510074	Solvents	1997.. X	D
		2002.. X	8 070
32561000	Cleaning compounds	1997.. X	N
		2002.. X	1 841
00970099	All other materials and components, parts, containers, and supplies	1997.. X	N
		2002.. X	502 922
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X	850 444
		2002.. X	474 520
		1997.. X	920 456
334413	Semiconductor and related device manufacturing		
00900001	Total materials	2002.. X	13 496 283
		1997.. X	10 368 892
32721203	Tube blanks	2002.. X	2 105
		1997.. X	6 404
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X	220 060
		1997.. X	77 350
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	2002.. X	136 560
		1997.. X	62 872
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002.. X	1 077 528
		1997.. X	1 550 393
33441400	Capacitors for electronic circuitry	2002.. X	D
		1997.. X	209 149
33441500	Resistors for electronic circuitry	2002.. X	12 801
		1997.. X	25 043
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	2002.. X	239 025
		1997.. X	322 358
32518835	Silicon, hyperpure	2002.. X	2 198 733
		1997.. X	1 529 415
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	2002.. X	290 998
		1997.. X	267 963
33141917	Doped chemicals and other doped materials for electronic use	2002.. X	1 958 713
		1997.. X	349 933
33111107	Ferrites (powder and paste)	2002.. X	18 736
		1997.. X	D
331000AA	Metal powders	2002.. X	17 385
		1997.. X	671
33411001	Electronic computer equipment	2002.. X	24 120
		1997.. X	N
33593101	Current-carrying wiring devices	2002.. X	41 340
		1997.. X	D
33422001	Electronic communication equipment	2002.. X	57 353
		1997.. X	22 295
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	2002.. X	D
		1997.. X	144 698
33451503	All other miscellaneous electrical measuring instruments and parts	2002.. X	5 125
		1997.. X	N
33531211	Fractional horsepower electric motors (less than 1 hp)	2002.. X	D
		1997.. X	N
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	8 546
		1997.. X	N
33431005	Loudspeakers, microphones, and tuners (all types)	2002.. X	D
		1997.. X	N
32720003	Glass and glass products (excluding windows and mirrors)	2002.. X	114 889
		1997.. X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	2002.. X	6 512
		1997.. X	8 462
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	38 026
		1997.. X	30 065
32610011	Fabricated plastics products (excluding gaskets)	2002.. X	20 536
		1997.. X	56 003
332000A9	Sheet metal products (excluding stampings)	2002.. X	D
		1997.. X	7 775
332000AC	Metal stampings	2002.. X	115 485
		1997.. X	33 807
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	5 454
		1997.. X	16 721
33200033	Other fabricated metal products (excluding forgings)	2002.. X	41 965
		1997.. X	40 460
33210000	Forgings	2002.. X	D

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334413	Semiconductor and related device manufacturing— Con.		
	1997..	X	N
33100035	Castings, rough and semifinished.....	X	D
	2002..	X	2 172
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 715
	2002..	X	4 147
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	18 871
	2002..	X	15 564
	1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	37 154
	2002..	X	N
	1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper- base alloy castings, forgings, and fabricated metal products)	X	5 321
	2002..	X	
	1997..	X	N
331000A7	Insulated wire and cable (including magnet wire)	X	28 044
	2002..	X	18 415
	1997..	X	
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	28 322
	2002..	X	47 389
	1997..	X	
32611305	Resists (photosensitive resin films applied to the surface of a wafer)	X	200 975
	2002..	X	59 289
	1997..	X	437 604
32512005	Commodity gases	X	539 420
	2002..	X	340 231
	1997..	X	
32518843	Specialty gases	X	107 983
	2002..	X	399 746
	1997..	X	208 645
33141957	Silicon chips	X	1 316 469
	2002..	X	524 912
	1997..	X	34 671
32510074	Solvents.....	X	N
	2002..	X	D
	1997..	X	N
32561000	Cleaning compounds	X	D
	2002..	X	N
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	2 498 174
	2002..	X	2 719 209
	1997..	X	726 303
00971000	Materials, ingredients, containers, and supplies, nsk	X	790 370
	2002..	X	
	1997..	X	
334414	Electronic capacitor manufacturing		
00900001	Total materials	X	572 657
	2002..	X	805 395
	1997..	X	
32721203	Tube blanks	X	D
	2002..	X	N
	1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	D
	2002..	X	3 830
	1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	D
	2002..	X	D
	1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	1 206
	2002..	X	5 693
	1997..	X	
33441400	Capacitors for electronic circuitry	X	69 665
	2002..	X	85 331
	1997..	X	625
33441500	Resistors for electronic circuitry	X	D
	2002..	X	
	1997..	X	
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	17 193
	2002..	X	32 209
	1997..	X	
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	65 032
	2002..	X	83 502
	1997..	X	
33141917	Doped chemicals and other doped materials for electronic use	X	D
	2002..	X	D
	1997..	X	
33111107	Ferrites (powder and paste).....	X	D
	2002..	X	D
	1997..	X	
331000AA	Metal powders	X	119 729
	2002..	X	203 473
	1997..	X	
33411001	Electronic computer equipment.....	X	26
	2002..	X	N
	1997..	X	D
33593101	Current-carrying wiring devices.....	X	D
	2002..	X	D
	1997..	X	
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	D
	2002..	X	-
	1997..	X	
33451503	All other miscellaneous electrical measuring instruments and parts.....	X	D
	2002..	X	N
	1997..	X	
32720003	Glass and glass products (excluding windows and mirrors)	X	D
	2002..	X	N
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	7 886
	2002..	X	12 167
	1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	1 139
	2002..	X	15 725
	1997..	X	
332000A9	Sheet metal products (excluding stampings)	X	1 315
	2002..	X	7 769
	1997..	X	

See footnotes at end of table.

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[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334414	Electronic capacitor manufacturing—Con.		
332000AC	Metal stampings2002..	X	17 855
	1997..	X	22 300
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products2002..	X	949
	1997..	X	4 493
33200033	Other fabricated metal products (excluding forgings)2002..	X	2 024
	1997..	X	7 034
33100035	Castings, rough and semifinished2002..	X	D
	1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	D
	1997..	X	950
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	521
	1997..	X	916
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)2002..	X	34 879
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)2002..	X	5 759
	1997..	X	N
331000A7	Insulated wire and cable (including magnet wire)2002..	X	130
	1997..	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)2002..	X	11 841
	1997..	X	10 686
32611305	Resists (photosensitive resin films applied to the surface of a wafer)2002..	X	D
	1997..	X	N
32512005	Commodity gases2002..	X	3 019
	1997..	X	3 873
32518843	Specialty gases2002..	X	D
	1997..	X	D
32599217	Masks2002..	X	D
	1997..	X	N
32510074	Solvents2002..	X	1 244
	1997..	X	N
32561000	Cleaning compounds2002..	X	39
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies2002..	X	160 470
	1997..	X	210 410
00971000	Materials, ingredients, containers, and supplies, nsk2002..	X	27 520
	1997..	X	47 257
334415	Electronic resistor manufacturing		
00900001	Total materials2002..	X	129 204
	1997..	X	236 853
32721203	Tube blanks2002..	X	2 381
	1997..	X	1 470
33441200	Printed circuit boards (without inserted components) for electronic circuitry2002..	X	6 073
	1997..	X	4 472
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)2002..	X	2 202
	1997..	X	D
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry2002..	X	4 448
	1997..	X	D
33441400	Capacitors for electronic circuitry2002..	X	9 048
	1997..	X	20 221
33441500	Resistors for electronic circuitry2002..	X	5 275
	1997..	X	12 636
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)2002..	X	6 673
	1997..	X	4 837
32518835	Silicon, hyperpure2002..	X	D
	1997..	X	D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)2002..	X	6 407
	1997..	X	19 816
33141917	Doped chemicals and other doped materials for electronic use2002..	X	2 329
	1997..	X	D
33111107	Ferrites (powder and paste)2002..	X	5 611
	1997..	X	5 203
331000AA	Metal powders2002..	X	D
	1997..	X	2 816
33411001	Electronic computer equipment2002..	X	202
	1997..	X	N
33593101	Current-carrying wiring devices2002..	X	2 091
	1997..	X	2 291
33422001	Electronic communication equipment2002..	X	D
	1997..	X	D
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)2002..	X	D
	1997..	X	D
33451503	All other miscellaneous electrical measuring instruments and parts2002..	X	D
	1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp)2002..	X	D
	1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment2002..	X	D
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334415	Electronic resistor manufacturing—Con.		
32720003	Glass and glass products (excluding windows and mirrors)	X	D
	1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	2002..	X	D
	1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	5 817
	2002..	X	8 460
	1997..	X	15 379
32610011	Fabricated plastics products (excluding gaskets)	X	14 282
	2002..	X	4 591
	1997..	X	1 913
332000A9	Sheet metal products (excluding stampings)	X	7 607
	2002..	X	11 605
	1997..	X	
332000AC	Metal stampings	X	4 916
	2002..	X	8 996
	1997..	X	7 309
33200033	Other fabricated metal products (excluding forgings)	X	7 731
	2002..	X	D
	1997..	X	—
33100035	Castings, rough and semifinished	X	D
	2002..	X	2 538
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	747
	2002..	X	1 758
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 234
	2002..	X	N
	1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 397
	2002..	X	N
	1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	3 510
	2002..	X	4 032
	1997..	X	
331000A7	Insulated wire and cable (including magnet wire)	X	2 173
	2002..	X	4 699
	1997..	X	
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	1 645
	2002..	X	1 276
	1997..	X	1 155
32611305	Resists (photosensitive resin films applied to the surface of a wafer)	X	1 577
	2002..	X	D
	1997..	X	D
32512005	Commodity gases	X	D
	2002..	X	D
	1997..	X	D
32518843	Specialty gases	X	443
	2002..	X	D
	1997..	X	
32599217	Masks	X	418
	2002..	X	N
	1997..	X	N
33141957	Silicon chips	X	D
	2002..	X	D
	1997..	X	
32510074	Solvents	X	69 225
	2002..	X	4 025
	1997..	X	11 170
32561000	Cleaning compounds	X	
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	
	2002..	X	
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002..	X	
	1997..	X	
334416	Electronic coil, transformer, and other inductor manufacturing		
00900001	Total materials	X	386 168
	2002..	X	489 990
	1997..	X	754
32721203	Tube blanks	X	1 047
	2002..	X	
	1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	2 095
	2002..	X	1 582
	1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	14 650
	2002..	X	2 874
	1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	5 256
	2002..	X	2 874
	1997..	X	
33441400	Capacitors for electronic circuitry	X	5 579
	2002..	X	2 794
	1997..	X	3 270
33441500	Resistors for electronic circuitry	X	1 856
	2002..	X	
	1997..	X	
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	12 009
	2002..	X	7 806
	1997..	X	
32518835	Silicon, hyperpure	X	D
	2002..	X	D
	1997..	X	
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	1 208
	2002..	X	1 218
	1997..	X	
33141917	Doped chemicals and other doped materials for electronic use	X	181
	2002..	X	418
	1997..	X	5 452
33111107	Ferrites (powder and paste)	X	11 918
	2002..	X	640
	1997..	X	2 186
331000AA	Metal powders	X	99
	2002..	X	N
	1997..	X	
33411001	Electronic computer equipment	X	
	2002..	X	
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334416	Electronic coil, transformer, and other inductor manufacturing—Con.		
33593101	Current-carrying wiring devices.....2002..	X	11 071
	.....1997..	X	6 794
33422001	Electronic communication equipment.....2002..	X	D
	.....1997..	X	373
33451501	Electrical instrument mechanisms and meter movements (including instrument relays).....2002..	X	D
	.....1997..	X	2 306
33451503	All other miscellaneous electrical measuring instruments and parts.....2002..	X	81
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp).....2002..	X	D
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	6 693
	.....1997..	X	N
33431005	Loudspeakers, microphones, and tuners (all types).....2002..	X	D
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors).....2002..	X	D
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control).....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.....2002..	X	3 118
	.....1997..	X	4 811
32610011	Fabricated plastics products (excluding gaskets).....2002..	X	8 326
	.....1997..	X	8 860
332000A9	Sheet metal products (excluding stampings).....2002..	X	D
	.....1997..	X	D
332000AC	Metal stampings.....2002..	X	9 832
	.....1997..	X	16 252
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	5 120
	.....1997..	X	8 313
33200033	Other fabricated metal products (excluding forgings).....2002..	X	2 651
	.....1997..	X	9 478
33210000	Forgings.....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished.....2002..	X	90
	.....1997..	X	2 063
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	53 704
	.....1997..	X	51 261
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	9 522
	.....1997..	X	15 534
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	1 320
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products).....2002..	X	2 617
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire).....2002..	X	52 971
	.....1997..	X	74 714
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	10 060
	.....1997..	X	8 127
32611305	Resists (photosensitive resin films applied to the surface of a wafer).....2002..	X	D
	.....1997..	X	N
32512005	Commodity gases.....2002..	X	196
	.....1997..	X	400
32599217	Masks.....2002..	X	D
	.....1997..	X	N
33141957	Silicon chips.....2002..	X	D
	.....1997..	X	D
32510074	Solvents.....2002..	X	515
	.....1997..	X	N
32561000	Cleaning compounds.....2002..	X	139
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	86 110
	.....1997..	X	96 677
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	41 558
	.....1997..	X	143 704
334417	Electronic connector manufacturing		
00900001	Total materials.....2002..	X	1 049 797
	.....1997..	X	1 553 974
32721203	Tube blanks.....2002..	X	D
	.....1997..	X	-
33441200	Printed circuit boards (without inserted components) for electronic circuitry.....2002..	X	11 677
	.....1997..	X	12 775
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components).....2002..	X	29 391
	.....1997..	X	21 762
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry.....2002..	X	D
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334417	Electronic connector manufacturing—Con.		
33441400	Capacitors for electronic circuitry	X	2 187
	.....2002..	X	14 314
	.....1997..	X	D
33441500	Resistors for electronic circuitry	X	D
	.....2002..	X	1 009
	.....1997..	X	
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	174 519
	.....2002..	X	27 232
	.....1997..	X	D
32518835	Silicon, hyperpure	X	D
	.....2002..	X	-
	.....1997..	X	
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	60 082
	.....2002..	X	157 386
	.....1997..	X	
33141917	Doped chemicals and other doped materials for electronic use	X	D
	.....2002..	X	291
	.....1997..	X	D
33111107	Ferrites (powder and paste)	X	D
	.....2002..	X	172
	.....1997..	X	D
331000AA	Metal powders	X	80
	.....2002..	X	D
	.....1997..	X	D
33411001	Electronic computer equipment	X	D
	.....2002..	X	N
	.....1997..	X	
33593101	Current-carrying wiring devices	X	7 697
	.....2002..	X	9 594
	.....1997..	X	
33422001	Electronic communication equipment	X	D
	.....2002..	X	D
	.....1997..	X	
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	D
	.....2002..	X	160
	.....1997..	X	
33451503	All other miscellaneous electrical measuring instruments and parts	X	D
	.....2002..	X	N
	.....1997..	X	D
33531211	Fractional horsepower electric motors (less than 1 hp)	X	D
	.....2002..	X	N
	.....1997..	X	
001900B1	Electrical transmission, distribution, and control equipment	X	562
	.....2002..	X	N
	.....1997..	X	
32720003	Glass and glass products (excluding windows and mirrors)	X	369
	.....2002..	X	N
	.....1997..	X	
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	.....2002..	X	D
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	42 870
	.....2002..	X	107 373
	.....1997..	X	39 796
32610011	Fabricated plastics products (excluding gaskets)	X	81 380
	.....2002..	X	13 714
	.....1997..	X	4 681
332000A9	Sheet metal products (excluding stampings)	X	
	.....2002..	X	22 235
	.....1997..	X	51 270
332000AC	Metal stampings	X	
	.....2002..	X	52 570
	.....1997..	X	71 363
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	30 610
	.....2002..	X	82 214
	.....1997..	X	D
33200033	Other fabricated metal products (excluding forgings)	X	D
	.....2002..	X	N
	.....1997..	X	
33210000	Forgings	X	4 495
	.....2002..	X	12 928
	.....1997..	X	
33100035	Castings, rough and semifinished	X	
	.....2002..	X	23 911
	.....1997..	X	19 265
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
	.....2002..	X	49 117
	.....1997..	X	67 769
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
	.....2002..	X	44 679
	.....1997..	X	N
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	
	.....2002..	X	4 258
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	
	.....2002..	X	21 324
	.....1997..	X	38 788
331000A7	Insulated wire and cable (including magnet wire)	X	
	.....2002..	X	15 039
	.....1997..	X	27 551
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	
	.....2002..	X	D
	.....1997..	X	D
32611305	Resists (photosensitive resin films applied to the surface of a wafer)	X	347
	.....2002..	X	D
	.....1997..	X	D
32512005	Commodity gases	X	D
	.....2002..	X	D
	.....1997..	X	D
32518843	Specialty gases	X	D
	.....2002..	X	D
	.....1997..	X	D
32510074	Solvents	X	D
	.....2002..	X	N
	.....1997..	X	
32561000	Cleaning compounds	X	D
	.....2002..	X	N
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	242 720
	.....2002..	X	395 122
	.....1997..	X	67 727
00971000	Materials, ingredients, containers, and supplies, nsk	X	220 916
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334418	Printed circuit assembly (electronic assembly) manufacturing		
00900001	Total materials	X	12 295 044
32721203	Tube blanks	X	15 131 327
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	D
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	D
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	1 567 033
33441400	Capacitors for electronic circuitry	X	1 589 225
33441500	Resistors for electronic circuitry	X	2 737 820
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	1 631 034
32518835	Silicon, hyperpure	X	3 245 943
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	3 468 132
33141917	Doped chemicals and other doped materials for electronic use	X	536 603
33111107	Ferrites (powder and paste)	X	391 797
331000AA	Metal powders	X	371 627
33411001	Electronic computer equipment	X	362 048
33593101	Current-carrying wiring devices	X	548 620
33422001	Electronic communication equipment	X	D
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	D
33451503	All other miscellaneous electrical measuring instruments and parts	X	93 613
33531211	Fractional horsepower electric motors (less than 1 hp)	X	D
001900B1	Electrical transmission, distribution, and control equipment	X	4 774
33431005	Loudspeakers, microphones, and tuners (all types)	X	28 369
32720003	Glass and glass products (excluding windows and mirrors)	X	1 439
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	3 322
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	3 258
32610011	Fabricated plastics products (excluding gaskets)	X	1 796
332000A9	Sheet metal products (excluding stampings)	X	1 917
332000AC	Metal stampings	X	D
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	71 649
33200033	Other fabricated metal products (excluding forgings)	X	N
33210000	Forgings	X	N
33100035	Castings, rough and semifinished	X	17 115
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	19 645
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	20 578
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	D
331000A7	Insulated wire and cable (including magnet wire)	X	3 689
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	17 947
32611305	Resists (photosensitive resin films applied to the surface of a wafer)	X	1 672
32512005	Commodity gases	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334418	Printed circuit assembly (electronic assembly) manufacturing—Con.		
	1997..	X	4 589
32518843	Specialty gases	X	76
	2002..	X	D
	1997..	X	D
32599217	Masks	X	350
	2002..	X	D
	1997..	X	D
33141957	Silicon chips	X	27 013
	2002..	X	73 018
	1997..	X	1 323
32510074	Solvents.....	X	N
	2002..	X	2 467
	1997..	X	N
32561000	Cleaning compounds	X	N
	1997..	X	1 245 841
00970099	All other materials and components, parts, containers, and supplies	X	699 072
	2002..	X	1 025 636
	1997..	X	3 197 510
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	1997..	X	
334419	Other electronic component manufacturing		
00900001	Total materials	X	3 255 058
	2002..	X	3 768 939
	1997..	X	D
32721203	Tube blanks	X	D
	2002..	X	9 413
	1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	68 833
	2002..	X	59 999
	1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	248 184
	2002..	X	126 102
	1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	139 311
	2002..	X	138 266
	1997..	X	
33441400	Capacitors for electronic circuitry	X	57 319
	2002..	X	54 464
	1997..	X	32 674
33441500	Resistors for electronic circuitry	X	23 492
	2002..	X	
	1997..	X	
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	221 549
	2002..	X	244 113
	1997..	X	D
32518835	Silicon, hyperpure	X	D
	2002..	X	D
	1997..	X	D
33141911	Gold and other precious metals, all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	14 284
	2002..	X	53 887
	1997..	X	
33141917	Doped chemicals and other doped materials for electronic use	X	638
	2002..	X	1 353
	1997..	X	16 180
33111107	Ferrites (powder and paste)	X	41 778
	2002..	X	7 111
	1997..	X	11 229
331000AA	Metal powders	X	12 534
	2002..	X	N
	1997..	X	N
33411001	Electronic computer equipment.....	X	27 747
	2002..	X	53 487
	1997..	X	
33593101	Current-carrying wiring devices.....	X	
	2002..	X	60 033
	1997..	X	116 819
33422001	Electronic communication equipment.....	X	
	2002..	X	15 463
	1997..	X	8 422
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	
	2002..	X	7 119
	1997..	X	N
33451503	All other miscellaneous electrical measuring instruments and parts	X	N
	2002..	X	D
	1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp)	X	N
	2002..	X	N
	1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment.....	X	35 402
	2002..	X	N
	1997..	X	N
33431005	Loudspeakers, microphones, and tuners (all types)	X	D
	2002..	X	N
	1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors)	X	D
	2002..	X	N
	1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	2002..	X	D
	1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	29 595
	2002..	X	39 691
	1997..	X	38 095
32610011	Fabricated plastics products (excluding gaskets)	X	59 743
	2002..	X	
	1997..	X	
332000A9	Sheet metal products (excluding stampings)	X	50 539
	2002..	X	55 070
	1997..	X	33 246
332000AC	Metal stampings.....	X	39 699
	2002..	X	
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	47 959
	2002..	X	59 321
	1997..	X	110 532
33200033	Other fabricated metal products (excluding forgings)	X	72 364
	2002..	X	466
	1997..	X	N
33210000	Forgings	X	N
	2002..	X	
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334419	Other electronic component manufacturing—Con.		
33100035	Castings, rough and semifinished.....2002..	X	9 812
	.....1997..	X	15 638
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	30 919
	.....1997..	X	72 775
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	5 211
	.....1997..	X	9 689
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	40 006
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products).....2002..	X	6 484
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire).....2002..	X	104 992
	.....1997..	X	183 334
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	14 587
	.....1997..	X	29 781
32611305	Resists (photosensitive resin films applied to the surface of a wafer).....2002..	X	D
	.....1997..	X	2 411
32512005	Commodity gases.....2002..	X	5 076
	.....1997..	X	3 413
32518843	Specialty gases.....2002..	X	614
	.....1997..	X	128
32599217	Masks.....2002..	X	D
	.....1997..	X	1 723
33141957	Silicon chips.....2002..	X	7 446
	.....1997..	X	11 789
32510074	Solvents.....2002..	X	D
	.....1997..	X	N
32561000	Cleaning compounds.....2002..	X	1 030
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	952 205
	.....1997..	X	961 323
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	600 570
	.....1997..	X	1 180 745
334510	Electromedical and electrotherapeutic apparatus manufacturing		
00900001	Total materials.....2002..	X	5 330 448
	.....1997..	X	3 485 274
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	106 973
	.....1997..	X	61 703
332000AC	Metal stampings.....2002..	X	24 916
	.....1997..	X	N
33200041	All other fabricated metal products (excluding forgings).....2002..	X	180 841
	.....1997..	X	N
33210000	Forgings.....2002..	X	36 825
	.....1997..	X	N
33100035	Castings, rough and semifinished.....2002..	X	14 887
	.....1997..	X	20 620
33120031	Stainless steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	N
33120043	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	6 433
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	139 562
	.....1997..	X	27 541
33410005	Purchased electronic computing and peripheral equipment for incorporation into complete finished products.....2002..	X	D
	.....1997..	X	N
33441105	Transmittal, industrial, and special-purpose electron tubes (excluding X-ray).....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry.....2002..	X	268 307
	.....1997..	X	N
33441400	Capacitors for electronic circuitry.....2002..	X	85 526
	.....1997..	X	N
33441500	Resistors for electronic circuitry.....2002..	X	72 087
	.....1997..	X	N
33441700	Connectors for electronic circuitry.....2002..	X	74 372
	.....1997..	X	N
001900C2	Other electronic components and accessories.....2002..	X	374 660
	.....1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire).....2002..	X	102 339
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes.....2002..	X	174 911
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard.....2002..	X	100 347
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	2 460 903
	.....1997..	X	2 908 246
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	941 401
	.....1997..	X	467 164

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing		
00900001	Total materials	X	8 508 409
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	7 728 126
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	234 078
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	170 738
33441400	Capacitors for electronic circuitry	X	570 243
33441500	Resistors for electronic circuitry	X	251 948
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	525 209
33422001	Electronic communication equipment	X	475 551
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	69 939
33411001	Electronic computer equipment	X	72 197
33411200	Purchased peripheral storage devices	X	37 770
33593101	Current-carrying wiring devices	X	70 899
331000A7	Insulated wire and cable (including magnet wire)	X	909 913
33431005	Loudspeakers, microphones, and tuners (all types)	X	456 627
33531211	Fractional horsepower electric motors (less than 1 hp)	X	276 131
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	355 625
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	117 725
332000A9	Sheet metal products (excluding stampings)	X	102 889
332000AC	Metal stampings	X	120 113
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	N
33200033	Other fabricated metal products (excluding forgings)	X	5 320
33210000	Forgings	X	N
33100035	Castings, rough and semifinished	X	123 528
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	69 451
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	56 535
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	71 079
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	2 521
00970099	All other materials and components, parts, containers, and supplies	X	7 125
00971000	Materials, ingredients, containers, and supplies, nsk	X	68 327
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use		35 280
00900001	Total materials	X	10 866
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	25 130
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	45 022
33441400	Capacitors for electronic circuitry	X	379 306
33441500	Resistors for electronic circuitry	X	180 318
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	12 546
33593101	Current-carrying wiring devices	X	13 611
001900B1	Electrical transmission, distribution, and control equipment	X	80 651
		X	62 759
		X	121 043
		X	137 820
		X	16 190
		X	N
		X	47 137
		X	73 206
		X	5 512
		X	5 476
		X	27 814
		X	N
		X	12 223
		X	16 254
		X	11 397
		X	9 123
		X	3 481 248
		X	2 480 257
		X	1 159 994
		X	2 564 871
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use		
00900001	Total materials	X	929 913
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	1 044 660
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	26 796
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	34 426
33441400	Capacitors for electronic circuitry	X	36 800
33441500	Resistors for electronic circuitry	X	14 728
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	56 754
33593101	Current-carrying wiring devices	X	62 517
001900B1	Electrical transmission, distribution, and control equipment	X	10 976
		X	19 117
		X	4 757
		X	13 086
		X	7 451
		X	45 722
		X	15 298
		X	19 069
		X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use—Con.		
	1997..	X	13 038
33410001	Electronic computing equipment	X	D
	2002..	X	8 261
	1997..	X	
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	1 188
	2002..	X	D
	1997..	X	
33451503	All other miscellaneous electrical measuring instruments and parts	X	11 721
	2002..	X	D
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	18 817
	2002..	X	35 017
	1997..	X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	14 639
	1997..	X	36 897
	2002..	X	31 823
	1997..	X	35 501
332000A9	Sheet metal products (excluding stampings)	X	24 969
	2002..	X	63 796
	1997..	X	
332000AC	Metal stampings	X	9 050
	2002..	X	44 944
	1997..	X	3 526
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	N
	2002..	X	6 735
	1997..	X	
33210000	Forgings	X	37 255
	2002..	X	3 775
	1997..	X	34 262
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 375
	2002..	X	N
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 586
	2002..	X	N
	1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	10 373
	2002..	X	N
	1997..	X	
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	N
	2002..	X	871
	1997..	X	4 965
32720003	Glass and glass products (excluding windows and mirrors)	X	16 183
	2002..	X	N
	1997..	X	
331000A7	Insulated wire and cable (including magnet wire)	X	14 151
	2002..	X	N
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	2 734
	2002..	X	N
	1997..	X	
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	2002..	X	N
	1997..	X	
33422001	Electronic communication equipment	X	N
	2002..	X	6 486
	1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp)	X	6 879
	2002..	X	N
	1997..	X	
33441900	Liquid crystal display screens (LCD), including LED	X	9 663
	2002..	X	N
	1997..	X	
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	202 039
	2002..	X	275 198
	1997..	X	282 939
00970099	All other materials and components, parts, containers, and supplies	X	237 502
	2002..	X	
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	2002..	X	
	1997..	X	
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables		
	1997..	X	2 259 463
00900001	Total materials	X	2 366 394
	2002..	X	
	1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	58 358
	2002..	X	103 326
	1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	133 839
	2002..	X	168 987
	1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	47 891
	2002..	X	128 250
	1997..	X	10 669
33441400	Capacitors for electronic circuitry	X	22 765
	2002..	X	49 729
	1997..	X	98 826
33441500	Resistors for electronic circuitry	X	
	2002..	X	25 626
	1997..	X	102 272
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	25 611
	2002..	X	24 159
	1997..	X	
33593101	Current-carrying wiring devices	X	57 202
	2002..	X	71 823
	1997..	X	
001900B1	Electrical transmission, distribution, and control equipment	X	34 093
	2002..	X	N
	1997..	X	
33411001	Electronic computer equipment	X	
	2002..	X	
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables—Con.		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	23 675
	.....2002..	X	24 106
	.....1997..		
33451503	All other miscellaneous electrical measuring instruments and parts	X	68 653
	.....2002..	X	68 789
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	7 329
	.....2002..	X	5 608
	.....1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	29 109
	.....2002..	X	39 259
	.....1997..		
332000A9	Sheet metal products (excluding stampings)	X	45 463
	.....2002..	X	49 195
	.....1997..		
332000AC	Metal stampings	X	24 829
	.....2002..	X	57 093
	.....1997..		
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	86 583
	.....2002..	X	79 852
	.....1997..		
33210000	Forgings	X	9 624
	.....2002..	X	N
	.....1997..		
33100035	Castings, rough and semifinished	X	54 705
	.....2002..	X	86 336
	.....1997..		
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	26 090
	.....2002..	X	54 698
	.....1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	65 021
	.....2002..	X	N
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	25 938
	.....2002..	X	N
	.....1997..		
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 540
	.....2002..	X	N
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 045
	.....2002..	X	N
	.....1997..		
32720003	Glass and glass products (excluding windows and mirrors)	X	9 426
	.....2002..	X	10 568
	.....1997..		
331000A7	Insulated wire and cable (including magnet wire)	X	17 341
	.....2002..	X	N
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	26 217
	.....2002..	X	N
	.....1997..		
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	19 574
	.....2002..	X	N
	.....1997..		
33422001	Electronic communication equipment	X	17 372
	.....2002..	X	N
	.....1997..		
33531211	Fractional horsepower electric motors (less than 1 hp)	X	4 073
	.....2002..	X	N
	.....1997..		
33441900	Liquid crystal display screens (LCD), including LED	X	25 023
	.....2002..	X	N
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	18 335
	.....2002..	X	N
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	388 094
	.....2002..	X	453 714
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	804 386
	.....2002..	X	716 768
	.....1997..		
334514	Totalizing fluid meter and counting device manufacturing		
00900001	Total materials	X	2 719 868
	.....2002..	X	1 635 548
	.....1997..		
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	80 193
	.....2002..	X	74 966
	.....1997..		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	82 580
	.....2002..	X	61 700
	.....1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	79 241
	.....2002..	X	72 465
	.....1997..		
33441400	Capacitors for electronic circuitry	X	7 718
	.....2002..	X	6 966
	.....1997..		
33441500	Resistors for electronic circuitry	X	5 693
	.....2002..	X	5 558
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	57 729
	.....2002..	X	34 541
	.....1997..		
33593101	Current-carrying wiring devices	X	6 284
	.....2002..	X	12 140
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	26 197
	.....2002..	X	10 093
	.....1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	28 004
	.....2002..	X	20 191
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334514	Totalizing fluid meter and counting device manufacturing—Con.		
33451503	All other miscellaneous electrical measuring instruments and parts	X	13 510
	.....2002..	X	D
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	18 268
	.....2002..	X	91 160
	.....1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	62 883
	.....2002..	X	57 455
	.....1997..		
332000A9	Sheet metal products (excluding stampings)	X	6 201
	.....2002..	X	9 873
	.....1997..		
332000AC	Metal stampings	X	8 418
	.....2002..	X	16 082
	.....1997..		
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	25 214
	.....2002..	X	30 767
	.....1997..		
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..		
33100035	Castings, rough and semifinished	X	61 104
	.....2002..	X	D
	.....1997..		
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 675
	.....2002..	X	15 565
	.....1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 829
	.....2002..	X	N
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 336
	.....2002..	X	N
	.....1997..		
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 596
	.....2002..	X	N
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..		
32720003	Glass and glass products (excluding windows and mirrors)	X	1 378
	.....2002..	X	3 725
	.....1997..		
331000A7	Insulated wire and cable (including magnet wire)	X	6 388
	.....2002..	X	N
	.....1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	15 150
	.....2002..	X	N
	.....1997..		
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	D
	.....2002..	X	N
	.....1997..		
33422001	Electronic communication equipment	X	5 914
	.....2002..	X	N
	.....1997..		
33531211	Fractional horsepower electric motors (less than 1 hp)	X	1 508
	.....2002..	X	N
	.....1997..		
33441900	Liquid crystal display screens (LCD), including LED	X	3 325
	.....2002..	X	N
	.....1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	5 103
	.....2002..	X	N
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	497 307
	.....2002..	X	821 194
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 575 952
	.....2002..	X	196 636
	.....1997..		
334515	Instrument manufacturing for measuring and testing electricity and electrical signals		
00900001	Total materials	X	3 372 789
	.....2002..	X	4 591 610
	.....1997..		
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	194 786
	.....2002..	X	223 187
	.....1997..		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	314 572
	.....2002..	X	310 399
	.....1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	152 626
	.....2002..	X	485 218
	.....1997..		
33441400	Capacitors for electronic circuitry	X	21 883
	.....2002..	X	39 103
	.....1997..		
33441500	Resistors for electronic circuitry	X	32 383
	.....2002..	X	33 332
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	227 027
	.....2002..	X	501 753
	.....1997..		
33593101	Current-carrying wiring devices	X	37 478
	.....2002..	X	85 973
	.....1997..		
001900B1	Electrical transmission, distribution, and control equipment	X	152 193
	.....2002..	X	138 757
	.....1997..		
33411001	Electronic computer equipment	X	21 512
	.....2002..	X	N
	.....1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	23 199
	.....2002..	X	69 960
	.....1997..		
33451503	All other miscellaneous electrical measuring instruments and parts	X	443 296
	.....2002..	X	415 717
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	7 661
	.....2002..	X	4 719
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334515	Instrument manufacturing for measuring and testing electricity and electrical signals—Con.		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....2002..	X	48 594
	.....1997..	X	43 656
332000A9	Sheet metal products (excluding stampings) .....2002..	X	24 697
	.....1997..	X	116 518
332000AC	Metal stampings.....2002..	X	21 876
	.....1997..	X	28 405
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products).....2002..	X	18 235
	.....1997..	X	68 019
33100035	Castings, rough and semifinished.....2002..	X	9 935
	.....1997..	X	15 860
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	15 818
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	19 628
	.....1997..	X	N
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 734
	.....1997..	X	N
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 514
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors) .....2002..	X	5 873
	.....1997..	X	11 725
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	14 608
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	8 818
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control) .....2002..	X	7 644
	.....1997..	X	N
33422001	Electronic communication equipment.....2002..	X	19 438
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	2 966
	.....1997..	X	N
33441900	Liquid crystal display screens (LCD), including LED .....2002..	X	12 828
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	6 312
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	630 529
	.....1997..	X	949 423
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	881 161
	.....1997..	X	1 034 068
334516	Analytical laboratory instrument manufacturing		
00900001	Total materials .....2002..	X	2 791 851
	.....1997..	X	2 261 395
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	49 025
	.....1997..	X	68 509
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	84 507
	.....1997..	X	185 463
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	38 447
	.....1997..	X	49 929
33441400	Capacitors for electronic circuitry .....2002..	X	10 692
	.....1997..	X	13 279
33441500	Resistors for electronic circuitry .....2002..	X	3 812
	.....1997..	X	12 194
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	55 777
	.....1997..	X	67 363
33593101	Current-carrying wiring devices .....2002..	X	80 328
	.....1997..	X	48 521
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	33 491
	.....1997..	X	53 066
33411001	Electronic computer equipment.....2002..	X	55 786
	.....1997..	X	N
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	D
	.....1997..	X	102 587
33451503	All other miscellaneous electrical measuring instruments and parts.....2002..	X	32 159
	.....1997..	X	132 380
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	3 482
	.....1997..	X	D
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting).....2002..	X	57 862
	.....1997..	X	112 179
332000A9	Sheet metal products (excluding stampings) .....2002..	X	50 846
	.....1997..	X	110 765

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334516	Analytical laboratory instrument manufacturing—Con.		
332000AC	Metal stampings	X	5 885
	2002..	X	9 464
	1997..		
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	56 404
	2002..	X	146 195
	1997..		D
33210000	Forgings	X	N
	2002..	X	6 614
	1997..	X	29 880
33100035	Castings, rough and semifinished	X	18 886
	2002..	X	39 135
	1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	6 689
	2002..	X	N
	1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 989
	2002..	X	N
	1997..		
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 476
	2002..	X	N
	1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	527
	2002..	X	N
	1997..		
32720003	Glass and glass products (excluding windows and mirrors)	X	9 717
	2002..	X	63 104
	1997..		
331000A7	Insulated wire and cable (including magnet wire)	X	10 648
	2002..	X	N
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	10 046
	2002..	X	N
	1997..		
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	40 930
	2002..	X	N
	1997..		
33422001	Electronic communication equipment	X	D
	2002..	X	N
	1997..		
33531211	Fractional horsepower electric motors (less than 1 hp)	X	11 206
	2002..	X	N
	1997..		
33441900	Liquid crystal display screens (LCD), including LED	X	4 793
	2002..	X	N
	1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	17 543
	2002..	X	N
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	899 580
	2002..	X	521 138
	1997..	X	1 066 812
00971000	Materials, ingredients, containers, and supplies, nsk	X	490 053
	2002..	X	
	1997..		
334517	Irradiation apparatus manufacturing		
00900001	Total materials	X	2 044 361
	2002..	X	1 552 967
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	13 241
	2002..	X	12 180
	1997..		D
332000AC	Metal stampings	X	19 745
	2002..	X	77 439
	1997..		N
33200041	All other fabricated metal products (excluding forgings)	X	N
	2002..	X	D
	1997..		N
33210000	Forgings	X	N
	2002..	X	
	1997..		
33100035	Castings, rough and semifinished	X	D
	2002..	X	7 054
	1997..		
33120031	Stainless steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	8 864
	2002..	X	9 555
	1997..		
33120043	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	11 729
	2002..	X	7 749
	1997..		
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	9 144
	1997..		
33441105	Transmittal, industrial, and special-purpose electron tubes (excluding X-ray)	X	59 723
	2002..	X	D
	1997..		
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	50 603
	2002..	X	26 499
	1997..		
33441400	Capacitors for electronic circuitry	X	6 599
	2002..	X	6 847
	1997..		
33441500	Resistors for electronic circuitry	X	9 466
	2002..	X	9 077
	1997..		
33441700	Connectors for electronic circuitry	X	4 918
	2002..	X	5 261
	1997..		
001900C2	Other electronic components and accessories	X	93 848
	2002..	X	71 746
	1997..		
331000A1	Insulated wire and cable (excluding magnet wire)	X	27 678
	2002..	X	25 860
	1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	10 925
	2002..	X	7 681
	1997..		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	D
	2002..	X	8 390
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	524 652
	2002..	X	668 309
	1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334517	Irradiation apparatus manufacturing—Con.		
00971000	Materials, ingredients, containers, and supplies, nsk	X	915 756
	.....2002..	X	627 491
	.....1997..		
334518	Watch, clock, and part manufacturing		
00900001	Total materials	X	220 401
	.....2002..	X	284 935
	.....1997..		
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	426
	.....2002..	X	D
	.....1997..	X	D
33100035	Castings, rough and semifinished	X	2 906
	.....2002..	X	
	.....1997..	X	
33200095	Other fabricated metal products (excluding castings and forgings)	X	3 473
	.....2002..	X	7 277
	.....1997..	X	D
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	D
	.....2002..	X	1 297
	.....1997..	X	
001900C7	Printed computer processors (system boards, array processors, etc.) for electronic circuitry	X	D
	.....2002..	X	D
	.....1997..	X	
33441500	Resistors for electronic circuitry	X	1 576
	.....2002..	X	N
	.....1997..	X	
33441400	Capacitors for electronic circuitry	X	2 579
	.....2002..	X	N
	.....1997..	X	
001900B8	Other components and accessories, for electronic circuitry (coils, transformers, transducers, switches, etc), excluding tubes	X	9 775
	.....2002..	X	3 493
	.....1997..	X	
33531201	Electric motors and generators	X	3 559
	.....2002..	X	570
	.....1997..	X	
33451801	Domestic (made in the United States) watch movements and modules	X	360
	.....2002..	X	25 734
	.....1997..	X	
33451803	Imported (not made in the United States) watch movements and modules	X	4 807
	.....2002..	X	8 208
	.....1997..	X	
33451805	Domestic (made in the United States) watchcases	X	D
	.....2002..	X	D
	.....1997..	X	
33451807	Imported (not made in the United States) watchcases	X	D
	.....2002..	X	586
	.....1997..	X	
33451811	Domestic (made in the United States) watch parts (including dials, hands, displays, etc.), excluding movements and face crystals	X	D
	.....2002..	X	4 750
	.....1997..	X	
33451815	Imported (not made in the United States) watch parts (including dials, hands, displays, etc.), excluding movements and face crystals	X	2 155
	.....2002..	X	573
	.....1997..	X	
00190092	Watchbands	X	D
	.....2002..	X	3 243
	.....1997..	X	
00190093	Face crystals	X	39
	.....2002..	X	295
	.....1997..	X	
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	D
	.....2002..	X	15 449
	.....1997..	X	
33232201	Steel, aluminum, and other metal electronic enclosures	X	6 088
	.....2002..	X	N
	.....1997..	X	
32619901	Plastics electronic enclosures	X	6 950
	.....2002..	X	N
	.....1997..	X	
33591200	Batteries, primary	X	1 056
	.....2002..	X	N
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	1 484
	.....2002..	X	N
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
	.....2002..	X	16 893
	.....1997..	X	
33593103	Appliance outlets, switches, lampholders, and other current-carrying wiring devices	X	D
	.....2002..	X	N
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	4 701
	.....2002..	X	13 567
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	61 562
	.....2002..	X	93 063
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	81 316
	.....2002..	X	41 969
	.....1997..	X	
334519	Other measuring and controlling device manufacturing		
00900001	Total materials	X	1 945 271
	.....2002..	X	1 668 998
	.....1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	23 795
	.....2002..	X	40 742
	.....1997..	X	
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	93 184
	.....2002..	X	74 707
	.....1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	36 007
	.....2002..	X	57 973
	.....1997..	X	
33441400	Capacitors for electronic circuitry	X	7 612
2002..	X	11 873
1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334519	Other measuring and controlling device manufacturing—Con.		
33441500	Resistors for electronic circuitry	X	7 751
	.....2002..	X	9 651
	.....1997..		
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	29 213
	.....2002..	X	43 470
	.....1997..	X	24 661
33593101	Current-carrying wiring devices	X	24 561
	.....2002..	X	8 341
	.....1997..	X	27 929
001900B1	Electrical transmission, distribution, and control equipment	X	D
	.....2002..	X	77 418
	.....1997..		
33451501	Electrical instrument mechanisms and meter movements (including instrument relays)	X	20 046
	.....2002..	X	22 531
	.....1997..		
33451503	All other miscellaneous electrical measuring instruments and parts	X	58 636
	.....2002..	X	27 242
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	3 459
	.....2002..	X	7 842
	.....1997..		
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	17 433
	.....2002..	X	35 399
	.....1997..	X	21 081
332000A9	Sheet metal products (excluding stampings)	X	51 104
	.....2002..	X	4 382
	.....1997..	X	18 352
332000AC	Metal stampings	X	46 817
	.....2002..	X	108 323
	.....1997..	X	2 257
332000AE	Other fabricated metal products (excluding forgings, metal stampings, and sheet metal products)	X	N
	.....2002..	X	62 726
	.....1997..	X	26 706
33210000	Forgings	X	
	.....2002..	X	11 174
	.....1997..	X	55 806
33100035	Castings, rough and semifinished	X	
	.....2002..	X	26 144
	.....1997..	X	N
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	7 027
	.....2002..	X	N
	.....1997..		
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 471
	.....2002..	X	N
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	834
	.....2002..	X	N
	.....1997..	X	N
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 798
	.....2002..	X	8 897
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	21 368
	.....2002..	X	N
	.....1997..		
32720003	Glass and glass products (excluding windows and mirrors)	X	30 019
	.....2002..	X	N
	.....1997..		
331000A7	Insulated wire and cable (including magnet wire)	X	3 884
	.....2002..	X	N
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	7 518
	.....2002..	X	N
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control)	X	6 374
	.....2002..	X	N
	.....1997..		
33422001	Electronic communication equipment	X	5 679
	.....2002..	X	N
	.....1997..		
33531211	Fractional horsepower electric motors (less than 1 hp)	X	5 858
	.....2002..	X	N
	.....1997..		
33441900	Liquid crystal display screens (LCD), including LED	X	628 068
	.....2002..	X	378 430
	.....1997..	X	716 136
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	560 042
	.....2002..	X	
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..		
334612	Prerecorded compact disc (except software), tape, and record reproducing		
00900001	Total materials	X	1 328 100
	.....2002..	X	1 246 505
	.....1997..		
33461301	Blank magnetic tape (with or without cassettes and cartridges), audio use	X	161 755
	.....2002..	X	181 123
	.....1997..	X	3 079
33461200	Record blanks, audio	X	2 107
	.....2002..	X	46 823
	.....1997..	X	27 374
33461303	Compact disc blanks for audio and computer use	X	117 007
	.....2002..	X	127 540
	.....1997..		
32619907	Empty tape cassettes and cartridges	X	
	.....2002..	X	
	.....1997..		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	123 234
	.....2002..	X	67 797
	.....1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	111 344
	.....2002..	X	88 246
	.....1997..	X	109 768
32200005	Paper and paperboard products (album covers, sleeves, etc.)	X	88 614
	.....2002..	X	
	.....1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
334612	Prerecorded compact disc (except software), tape, and record reproducing—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	210 253
	.....2002..	X	219 075
	.....1997..	X	8 747
00971000	Materials, ingredients, containers, and supplies, nsk	X	444 837
	.....2002..	X	444 629
	.....1997..	X	
334613	Magnetic and optical recording media manufacturing		
00900001	Total materials	X	1 010 922
	.....2002..	X	2 159 479
	.....1997..	X	8 747
32221001	Paperboard containers, boxes, and corrugated paperboard	X	76 032
	.....2002..	X	
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	26 598
	.....2002..	X	75 374
	.....1997..	X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	9 741
	.....2002..	X	103 808
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	133 939
	.....2002..	X	329 340
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	D
	.....2002..	X	D
	.....1997..	X	
33200095	Other fabricated metal products (excluding castings and forgings)	X	D
	.....2002..	X	D
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..	X	
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	
33111107	Ferrites (powder and paste)	X	D
	.....2002..	X	D
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	627 246
	.....2002..	X	655 774
	.....1997..	X	143 838
00971000	Materials, ingredients, containers, and supplies, nsk	X	689 837
	.....2002..	X	
	.....1997..	X	
335110	Electric lamp bulb and part manufacturing		
00900001	Total materials	X	754 230
	.....2002..	X	1 012 550
	.....1997..	X	256 738
32720009	Glass and glass products (including lamp bulb blanks)	X	297 162
	.....2002..	X	
	.....1997..	X	
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	90 133
	.....2002..	X	117 588
	.....1997..	X	53 287
325000A3	Industrial inorganic chemicals	X	N
	.....2002..	X	
	.....1997..	X	
33100045	Nonferrous metal wire	X	104 745
	.....2002..	X	169 988
	.....1997..	X	
33511005	Electric lamp (bulb) bases	X	84 049
	.....2002..	X	119 233
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	140 692
	.....2002..	X	274 755
	.....1997..	X	24 586
00971000	Materials, ingredients, containers, and supplies, nsk	X	33 824
	.....2002..	X	
	.....1997..	X	
335121	Residential electric lighting fixture manufacturing		
00900001	Total materials	X	732 748
	.....2002..	X	860 903
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	27 916
	.....2002..	X	5 696
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	6 916
	.....2002..	X	11 871
	.....1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	30 641
	.....2002..	X	43 423
	.....1997..	X	
33531100	Specialty transformers and fluorescent ballasts	X	22 959
	.....2002..	X	68 672
	.....1997..	X	
33593101	Current-carrying wiring devices	X	20 837
	.....2002..	X	32 751
	.....1997..	X	
33511001	Electric lamp bulbs	X	12 311
	.....2002..	X	21 375
	.....1997..	X	
32721101	Flat glass (plate, float, and sheet)	X	5 992
	.....2002..	X	13 085
	.....1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	7 816
	.....2002..	X	22 787
	.....1997..	X	
331000A7	Insulated wire and cable (including magnet wire)	X	6 732
	.....2002..	X	12 946
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	7 368
	.....2002..	X	19 839
	.....1997..	X	
33299903	Metal poles	X	4 310
	.....2002..	X	4 528
	.....1997..	X	
33200027	All other fabricated metal products (excluding forgings)	X	22 662
	.....2002..	X	34 331
	.....1997..	X	
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	10 683
	.....2002..	X	10 461
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335121	Residential electric lighting fixture manufacturing— Con.		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	5 664
	.....1997..	X	16 657
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	12 121
33120016	Steel sheet and strip (including tinplate) .....2002..	X	13 787
	.....1997..	X	N
33120025	Steel wire and wire products .....2002..	X	4 576
	.....1997..	X	4 960
33120097	All other steel mill shapes and forms (excluding castings and forgings) .....2002..	X	7 453
	.....1997..	X	26 574
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	8 977
	.....1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) .....2002..	X	4 197
	.....1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) .....2002..	X	4 837
	.....1997..	X	13 923
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 121
	.....1997..	X	5 679
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33512100	Lamp shades .....2002..	X	18 945
	.....1997..	X	23 359
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	356 170
	.....1997..	X	304 481
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	103 519
	.....1997..	X	151 384
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing		
00900001	Total materials .....2002..	X	1 510 974
	.....1997..	X	1 891 315
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	8 311
	.....1997..	X	15 737
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	63 269
	.....1997..	X	66 287
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	59 578
	.....1997..	X	72 244
33531100	Specialty transformers and fluorescent ballasts .....2002..	X	414 045
	.....1997..	X	546 146
33593101	Current-carrying wiring devices .....2002..	X	36 481
	.....1997..	X	88 612
33511001	Electric lamp bulbs .....2002..	X	51 302
	.....1997..	X	57 801
32721101	Flat glass (plate, float, and sheet) .....2002..	X	8 302
	.....1997..	X	10 196
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	16 265
	.....1997..	X	53 573
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	12 990
	.....1997..	X	20 010
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	45 582
	.....1997..	X	39 893
33299903	Metal poles .....2002..	X	10 037
	.....1997..	X	7 648
33200027	All other fabricated metal products (excluding forgings) .....2002..	X	66 738
	.....1997..	X	88 087
33210000	Forgings .....2002..	X	16 959
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	11 424
	.....1997..	X	5 865
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	34 826
	.....1997..	X	49 303
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	2 978
	.....1997..	X	2 351
33120016	Steel sheet and strip (including tinplate) .....2002..	X	119 348
	.....1997..	X	N
33120025	Steel wire and wire products .....2002..	X	15 745
	.....1997..	X	12 464
33120097	All other steel mill shapes and forms (excluding castings and forgings) .....2002..	X	50 152
	.....1997..	X	64 313
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	43 066
	.....1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.) .....2002..	X	15 846
	.....1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) .....2002..	X	18 238

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing—Con.		
	1997..	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 602
	2002..	X	8 025
	1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	2 528
	2002..	X	N
	1997..	X	
33512100	Lamp shades	X	1 838
	2002..	X	2 444
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	330 711
	2002..	X	D
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	48 813
	2002..	X	58 873
	1997..	X	
335129	Other lighting equipment manufacturing		
00900001	Total materials	X	1 596 700
	2002..	X	1 220 906
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	17 263
	2002..	X	23 061
	1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	28 093
	2002..	X	16 722
	1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	38 257
	2002..	X	35 234
	1997..	X	
33531100	Specialty transformers and fluorescent ballasts	X	111 732
	2002..	X	77 613
	1997..	X	
33593101	Current-carrying wiring devices	X	36 828
	2002..	X	44 517
	1997..	X	
33511001	Electric lamp bulbs	X	70 413
	2002..	X	65 294
	1997..	X	
32721101	Flat glass (plate, float, and sheet)	X	17 521
	2002..	X	14 835
	1997..	X	
32610011	Fabricated plastics products (excluding gaskets)	X	48 352
	2002..	X	46 788
	1997..	X	
331000A7	Insulated wire and cable (including magnet wire)	X	18 770
	2002..	X	16 002
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	29 381
	2002..	X	23 076
	1997..	X	
33299903	Metal poles	X	33 853
	2002..	X	29 551
	1997..	X	
33200027	All other fabricated metal products (excluding forgings)	X	52 404
	2002..	X	48 370
	1997..	X	
33210000	Forgings	X	18 232
	2002..	X	N
	1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	16 117
	2002..	X	42 527
	1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	58 059
	2002..	X	75 179
	1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	7 390
	2002..	X	8 063
	1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	19 011
	2002..	X	N
	1997..	X	
33120025	Steel wire and wire products	X	3 993
	2002..	X	2 526
	1997..	X	
33120097	All other steel mill shapes and forms (excluding castings and forgings)	X	10 845
	2002..	X	11 685
	1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	34 227
	2002..	X	N
	1997..	X	
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	25 075
	2002..	X	N
	1997..	X	
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	X	9 472
	2002..	X	5 225
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	5 683
	2002..	X	6 532
	1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	6 406
	2002..	X	N
	1997..	X	
33512100	Lamp shades	X	1 029
	2002..	X	N
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	668 776
	2002..	X	446 115
	1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	209 518
	2002..	X	181 991
	1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335211	Electric housewares and household fan manufacturing		
00900001	Total materials	X	832 567
332000AC	Metal stampings	X	1 360 842
33261005	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (excluding forgings)	X	27 441
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	26 574
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products)	X	3 722
33151001	Iron and steel castings (rough and semifinished)	X	N
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	11 492
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	18 214
33120016	Steel sheet and strip (including tinplate)	X	12 797
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	39 126
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	X	10 088
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors	X	21 580
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	D
001900B1	Electrical transmission, distribution, and control equipment	X	43 963
33593101	Current-carrying wiring devices	X	69 208
33451809	Timing mechanisms (excluding microprocessors)	X	D
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	23 437
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	D
32622001	Rubber and plastics hose and belting	X	D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	36 991
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	47 245
33100095	Complete flexible cord sets	X	10 087
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	N
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	1 178
00970099	All other materials and components, parts, containers, and supplies	X	4 463
00971000	Materials, ingredients, containers, and supplies, nsk	X	D
335212	Household vacuum cleaner manufacturing		
00900001	Total materials	X	1 036 493
332000AC	Metal stampings	X	14 548
33290011	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (except forgings)	X	16 807
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	D
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products)	X	1 535

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335212	Household vacuum cleaner manufacturing—Con.		
33210000	Forgings	1997.. X 2002.. X	11 501 D
33151001	Iron and steel castings (rough and semifinished)	1997.. X 2002.. X	N D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	1997.. X 2002.. X	D D
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D 2 340
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D
33120016	Steel sheet and strip (including tinplate)	1997.. X 2002.. X	D D
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X 2002.. X	N D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X 2002.. X	D N
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	2002.. X 1997.. X	D D
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors	2002.. X 1997.. X	30 373 53 340
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	77 517 54 009
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X 1997.. X	50 174 58 223
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	5 142 5 025
33593101	Current-carrying wiring devices	2002.. X 1997.. X	D 20 570
33451200	Automatic temperature controls (thermostats, regulators, etc.)	2002.. X 1997.. X	D D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	D N
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X 1997.. X	D D
32622001	Rubber and plastics hose and belting	2002.. X 1997.. X	36 252 27 835
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	95 925 52 274
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	131 969 117 823
33100095	Complete flexible cord sets	2002.. X 1997.. X	19 409 31 550
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X 1997.. X	18 640 7 949
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	245 986 375 174
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	81 875 82 999
335221	Household cooking appliance manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 657 709 1 708 788
332000AC	Metal stampings	2002.. X 1997.. X	258 310 159 194
33261005	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (excluding forgings)	2002.. X 1997.. X	81 106 N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	43 290 19 310
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products)	2002.. X 1997.. X	215 780 21 697
33210000	Forgings	2002.. X 1997.. X	D N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	49 366 22 195
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	94 048 83 317
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	3 082 D

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335221	Household cooking appliance manufacturing—Con.		
33120016	Steel sheet and strip (including tinplate)	X	200 734
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	78 512
	1997..	X	46 289
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	36 622
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	15 263
	1997..	X	D
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	X	9 301
	1997..	X	26 010
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors	X	23 197
	1997..	X	13 457
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	D
	1997..	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	104 622
	1997..	X	69 527
001900B1	Electrical transmission, distribution, and control equipment	X	158 086
	1997..	X	D
33593101	Current-carrying wiring devices	X	62 386
	1997..	X	D
33451809	Timing mechanisms (excluding microprocessors)	X	D
	1997..	X	95 317
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	80 834
	1997..	X	40 285
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	49 012
	1997..	X	N
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	5 979
	1997..	X	5 576
32622001	Rubber and plastics hose and belting	X	6 290
	1997..	X	8 054
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	113 385
	1997..	X	26 761
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
	1997..	X	4 833
33100095	Complete flexible cord sets	X	D
	1997..	X	7 716
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	124 154
	1997..	X	28 131
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	121 323
	1997..	X	33 667
00970099	All other materials and components, parts, containers, and supplies	X	489 193
	1997..	X	647 088
00971000	Materials, ingredients, containers, and supplies, nsk	X	167 952
	1997..	X	250 506
335222	Household refrigerator and home freezer manufacturing		
00900001	Total materials	X	3 093 067
	1997..	X	2 860 015
332000AC	Metal stampings	X	112 128
	1997..	X	D
33261005	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (excluding forgings)	X	64 169
	1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	25 718
	1997..	X	22 066
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products)	X	62 417
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	X	D
	1997..	X	7 439
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	11 700
	1997..	X	7 287
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	6 676
	1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	D
	1997..	X	D
33120016	Steel sheet and strip (including tinplate)	X	209 506
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	184 127
	1997..	X	N
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	44 923
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335222	Household refrigerator and home freezer manufacturing—Con.		
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	2002.. X 1997.. X	44 491 N
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors	2002.. X 1997.. X	222 371 N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X 1997.. X	119 050 77 199
001900B1	Electrical transmission, distribution, and control equipment	2002.. X 1997.. X	161 071 87 843
33593101	Current-carrying wiring devices	2002.. X 1997.. X	51 143 87 051
33451809	Timing mechanisms (excluding microprocessors)	2002.. X 1997.. X	20 574 N
33451200	Automatic temperature controls (thermostats, regulators, etc.)	2002.. X 1997.. X	42 915 64 949
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	33 862 N
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X 1997.. X	23 658 N
32622001	Rubber and plastics hose and belting	2002.. X 1997.. X	29 912 23 490
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	525 885 173 392
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	222 627 156 821
33100095	Complete flexible cord sets	2002.. X 1997.. X	27 370 N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X 1997.. X	83 857 N
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	2002.. X 1997.. X	6 602 55 703
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	606 637 1 719 580
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	83 442 232 216
335224	Household laundry equipment manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 411 318 1 932 710
332000AC	Metal stampings	2002.. X 1997.. X	55 570 90 822
33261005	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (excluding forgings)	2002.. X 1997.. X	D N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	28 455 48 780
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products)	2002.. X 1997.. X	42 830 D
33210000	Forgings	2002.. X 1997.. X	D N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	93 784 D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	27 551 34 742
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X 1997.. X	D D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 22 832
33120016	Steel sheet and strip (including tinplate)	2002.. X 1997.. X	311 574 N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D 49 337
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	40 847 N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	2002.. X 1997.. X	D D
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors	2002.. X 1997.. X	D 219 378
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002.. X 1997.. X	232 405 D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002.. X 1997.. X	79 555 61 922

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335224	Household laundry equipment manufacturing—Con.		
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	143 804
	.....1997..	X	D
33593101	Current-carrying wiring devices.....2002..	X	45 888
	.....1997..	X	D
33451809	Timing mechanisms (excluding microprocessors).....2002..	X	80 897
	.....1997..	X	95 907
33451200	Automatic temperature controls (thermostats, regulators, etc.).....2002..	X	86 044
	.....1997..	X	43 034
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product.....2002..	X	68 300
	.....1997..	X	N
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets).....2002..	X	D
	.....1997..	X	D
32622001	Rubber and plastics hose and belting.....2002..	X	55 942
	.....1997..	X	41 282
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes.....2002..	X	153 960
	.....1997..	X	120 633
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.....2002..	X	58 462
	.....1997..	X	58 632
33100095	Complete flexible cord sets.....2002..	X	D
	.....1997..	X	D
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components.....2002..	X	130 332
	.....1997..	X	D
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.).....2002..	X	6 239
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	251 670
	.....1997..	X	613 671
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	51 889
	.....1997..	X	45 823
335228	Other major household appliance manufacturing		
00900001	Total materials.....2002..	X	1 509 484
	.....1997..	X	1 398 774
332000AC	Metal stampings.....2002..	X	88 504
	.....1997..	X	39 516
33261005	Metal wire racks, grills, springs, and other fabricated nonelectric wire products (excluding forgings).....2002..	X	28 604
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	20 985
	.....1997..	X	72 223
33200025	All other fabricated metal products (excluding forgings, castings, wire racks, grills, springs, other fabricated nonelectric wire products, bolts, nuts, screws, rivets, and screw machine products).....2002..	X	40 447
	.....1997..	X	14 923
33210000	Forgings.....2002..	X	D
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished).....2002..	X	D
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished).....2002..	X	D
	.....1997..	X	D
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy).....2002..	X	3 495
	.....1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	D
33120016	Steel sheet and strip (including tinplate).....2002..	X	128 645
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	35 684
	.....1997..	X	13 941
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	8 455
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	D
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.).....2002..	X	10 773
	.....1997..	X	16 693
33531219	Fractional horsepower electric motors and generators (less than 1 hp), including timing motors.....2002..	X	76 190
	.....1997..	X	96 467
33531221	Integral horsepower electric motors and generators (1 hp or more).....2002..	X	D
	.....1997..	X	D
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies).....2002..	X	68 891
	.....1997..	X	48 112
001900B1	Electrical transmission, distribution, and control equipment.....2002..	X	49 781
	.....1997..	X	64 997
33593101	Current-carrying wiring devices.....2002..	X	37 003
	.....1997..	X	19 716

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335228	Other major household appliance manufacturing— Con.		
33451809	Timing mechanisms (excluding microprocessors)	X	D
	2002..	X	18 990
	1997..	X	135 244
33451200	Automatic temperature controls (thermostats, regulators, etc.)	X	95 416
	2002..	X	
	1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	21 748
	2002..	X	N
	1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	D
	2002..	X	721
	1997..	X	26 627
32622001	Rubber and plastics hose and belting	X	14 505
	2002..	X	
	1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	79 358
	2002..	X	66 443
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	108 590
	2002..	X	61 320
	1997..	X	
33100095	Complete flexible cord sets	X	D
	2002..	X	D
	1997..	X	
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	63 351
	2002..	X	18 425
	1997..	X	27 244
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	X	27 985
	2002..	X	
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	331 435
	2002..	X	435 783
	1997..	X	18 627
00971000	Materials, ingredients, containers, and supplies, nsk	X	251 961
	2002..	X	
	1997..	X	
335311	Power, distribution, and specialty transformer manufacturing		
00900001	Total materials	X	1 855 746
	2002..	X	2 056 373
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	11 280
	2002..	X	35 501
	1997..	X	
33200095	Other fabricated metal products (excluding castings and forgings)	X	33 865
	2002..	X	80 045
	1997..	X	2 041
33210000	Forgings	X	D
	2002..	X	
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	36 594
	2002..	X	33 742
	1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper- base alloy castings, forgings, and fabricated metal products)	X	11 123
	2002..	X	N
	1997..	X	
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	X	76 054
	2002..	X	167 778
	1997..	X	18 591
33100035	Castings, rough and semifinished	X	D
	2002..	X	
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	426 394
	2002..	X	523 399
	1997..	X	
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	33 557
	2002..	X	N
	1997..	X	
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	15 660
	2002..	X	14 776
	1997..	X	136 719
33100097	Magnet wire	X	242 954
	2002..	X	38 759
	1997..	X	33 607
331000A1	Insulated wire and cable (excluding magnet wire)	X	
	2002..	X	
	1997..	X	
32410003	Refined petroleum products (transformer oils, lubricating oils and greases, etc.)	X	70 095
	2002..	X	75 312
	1997..	X	60 260
32711301	Porcelain, steatite, and other ceramic electrical products	X	65 592
	2002..	X	
	1997..	X	
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	X	33 953
	2002..	X	52 137
	1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	19 237
	2002..	X	N
	1997..	X	
33593101	Current-carrying wiring devices	X	25 459
	2002..	X	68 156
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	380 842
	2002..	X	346 149
	1997..	X	425 263
00971000	Materials, ingredients, containers, and supplies, nsk	X	306 511
	2002..	X	
	1997..	X	
335312	Motor and generator manufacturing		
00900001	Total materials	X	3 967 190
	2002..	X	5 436 953
	1997..	X	129 528
332000AC	Metal stampings	X	218 133
	2002..	X	
	1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	83 002
	2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335312	Motor and generator manufacturing—Con.		
33200041	All other fabricated metal products (excluding forgings)	1997.. X 2002.. X	93 160 92 866
33210000	Forgings	1997.. X 2002.. X	N 14 440
33151001	Iron and steel castings (rough and semifinished)	1997.. X 2002.. X	N 82 724
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	1997.. X 2002.. X	129 730 71 307
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	1997.. X 2002.. X	99 213 13 409
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	1997.. X 2002.. X	52 701 55 718
33120016	Steel sheet and strip (including tinplate)	1997.. X 2002.. X	151 171 286 575
33120025	Steel wire and wire products	1997.. X 2002.. X	N 17 366
33120015	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, wire and wire products)	1997.. X 2002.. X	26 194 70 410
33100093	Copper and copper-base alloy bare wire for electrical conduction only	1997.. X 2002.. X	101 295 4 869
33142105	Copper and copper-base alloy rod, bar, and mechanical wire (including extruded and drawn shapes)	1997.. X 2002.. X	36 074 17 787
33142139	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, bare wire, rods, bars, and mechanical wire)	1997.. X 2002.. X	84 099 27 983
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X 2002.. X	25 921 46 809
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	1997.. X 2002.. X	N 12 158
33100097	Magnet wire	1997.. X 2002.. X	N 183 330
331000A3	Insulated copper wire and cable (excluding magnet wire)	1997.. X 2002.. X	312 906 44 968
33131201	Primary aluminum and aluminum-base alloy refinery shapes	1997.. X 2002.. X	57 157 10 942
33361811	Diesel and semidiesel engines	1997.. X 2002.. X	8 300 209 514
33361805	Gasoline and other carburetor engines	1997.. X 2002.. X	D 142 293
33531211	Fractional horsepower electric motors (less than 1 hp)	1997.. X 2002.. X	D 41 839
33531221	Integral horsepower electric motors and generators (1 hp or more)	1997.. X 2002.. X	109 906 25 617
33299101	Ball and roller bearings (mounted or unmounted)	1997.. X 2002.. X	81 858 53 253
33361301	Plain bearings and bushings	1997.. X 2002.. X	97 814 17 627
33361200	Mechanical speed changers, gears, and industrial high-speed drives	1997.. X 2002.. X	45 917 20 859
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	1997.. X 2002.. X	20 653 45 113
33599105	Carbon brushes	1997.. X 2002.. X	104 065 19 228
32711303	Ceramic magnets (ferrite)	1997.. X 2002.. X	22 661 23 447
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	1997.. X 2002.. X	73 569 45 744
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	1997.. X 2002.. X	128 315 23 756
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	1997.. X 2002.. X	91 961 23 234
33500007	Electrical industrial capacitors, resistors, rheostats, and coil windings	1997.. X 2002.. X	N 72 472
001900B1	Electrical transmission, distribution, and control equipment	1997.. X 2002.. X	156 200 72 826
32221001	Paperboard containers, boxes, and corrugated paperboard	1997.. X 2002.. X	89 588 37 542
00970099	All other materials and components, parts, containers, and supplies	1997.. X 2002.. X	40 118 1 207 635
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X 2002.. X	1 551 750 619 000
			1 123 865

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335313	Switchgear and switchboard apparatus manufacturing		
00900001	Total materials	X	3 252 022
	.....2002..	X	2 817 810
	.....1997..	X	
332000A9	Sheet metal products (excluding stampings)	X	86 684
	.....2002..	X	45 648
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	80 787
	.....2002..	X	85 353
	.....1997..	X	
33200087	All other fabricated metal products (excluding forgings, castings, sheet metal products, bolts, nuts, screws, rivets, washers, and screw machine products)	X	161 141
	.....2002..	X	145 119
	.....1997..	X	
33210000	Forgings	X	7 217
	.....2002..	X	N
	.....1997..	X	
33100035	Castings, rough and semifinished	X	65 802
	.....2002..	X	51 494
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	13 696
	.....2002..	X	41 924
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	74 433
	.....2002..	X	N
	.....1997..	X	
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	3 135
	.....2002..	X	5 597
	.....1997..	X	
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	49 673
	.....2002..	X	65 256
	.....1997..	X	
33140001	Nonferrous metal smelter and refinery shapes, including precious metal (excluding castings, forgings, and fabricated metal products)	X	56 304
	.....2002..	X	20 626
	.....1997..	X	
33100061	Aluminum and aluminum-base alloy shapes and forms (excluding wire, castings, forgings, and fabricated metal products)	X	59 197
	.....2002..	X	50 718
	.....1997..	X	
33142123	Copper and copper-base alloy shapes and forms (excluding wire, castings, forgings, and fabricated metal products)	X	150 109
	.....2002..	X	165 242
	.....1997..	X	
33100081	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	51 394
	.....2002..	X	26 876
	.....1997..	X	
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.)	X	23 949
	.....2002..	X	51 527
	.....1997..	X	
33531401	Industrial electrical control equipment purchased from other companies	X	254 697
	.....2002..	X	218 429
	.....1997..	X	
33531403	Industrial electrical control equipment received from other plants of the same company	X	355 739
	.....2002..	X	407 428
	.....1997..	X	
32711301	Porcelain, steatite, and other ceramic electrical products	X	33 528
	.....2002..	X	47 514
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	84 618
	.....2002..	X	71 488
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	43 911
	.....2002..	X	50 326
	.....1997..	X	
33531301	Switches (excluding snap, toggle and push, and circuit breakers)	X	63 384
	.....2002..	X	35 590
	.....1997..	X	
001900B5	Resistors, capacitors, transformers, and other electronic-type components (excluding electron tubes and semiconductors)	X	110 087
	.....2002..	X	84 892
	.....1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	52 181
	.....2002..	X	25 597
	.....1997..	X	
001900B9	Semiconductors, microprocessors, memory, ASICs and power semiconductor devices	X	13 224
	.....2002..	X	11 129
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	580 260
	.....2002..	X	719 666
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	776 872
	.....2002..	X	390 371
	.....1997..	X	
335314	Relay and industrial control manufacturing		
00900001	Total materials	X	3 548 574
	.....2002..	X	4 664 805
	.....1997..	X	
332000A9	Sheet metal products (excluding stampings)	X	79 348
	.....2002..	X	92 324
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	30 817
	.....2002..	X	57 374
	.....1997..	X	
33200087	All other fabricated metal products (excluding forgings, castings, sheet metal products, bolts, nuts, screws, rivets, washers, and screw machine products)	X	85 168
	.....2002..	X	96 682
	.....1997..	X	
33210000	Forgings	X	2 508
	.....2002..	X	N
	.....1997..	X	
33100035	Castings, rough and semifinished	X	25 778
	.....2002..	X	22 528
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	13 335
	.....2002..	X	15 408
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	18 796
2002..	X	N
1997..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335314	Relay and industrial control manufacturing—Con.		
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 105
	.....1997..	X	D
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling) .....2002..	X	18 852
	.....1997..	X	D
33140001	Nonferrous metal smelter and refinery shapes, including precious metal (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 277
	.....1997..	X	20 942
33100061	Aluminum and aluminum-base alloy shapes and forms (excluding wire, castings, forgings, and fabricated metal products) .....2002..	X	16 002
	.....1997..	X	14 718
33142123	Copper and copper-base alloy shapes and forms (excluding wire, castings, forgings, and fabricated metal products) .....2002..	X	16 677
	.....1997..	X	25 933
33100081	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 373
	.....1997..	X	24 386
33100087	Nonferrous wire and cable (including magnet wire, bare or insulated wire, etc.) .....2002..	X	38 294
	.....1997..	X	59 140
33531401	Industrial electrical control equipment purchased from other companies .....2002..	X	486 999
	.....1997..	X	552 141
33531403	Industrial electrical control equipment received from other plants of the same company .....2002..	X	281 617
	.....1997..	X	495 593
32711301	Porcelain, steatite, and other ceramic electrical products .....2002..	X	4 096
	.....1997..	X	7 145
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	37 675
	.....1997..	X	43 024
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	25 764
	.....1997..	X	32 532
33531301	Switches (excluding snap, toggle and push, and circuit breakers) .....2002..	X	63 740
	.....1997..	X	38 007
001900B5	Resistors, capacitors, transformers, and other electronic-type components (excluding electron tubes and semiconductors) .....2002..	X	161 498
	.....1997..	X	236 066
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	136 572
	.....1997..	X	134 074
001900B9	Semiconductors, microprocessors, memory, ASICs and power semiconductor devices .....2002..	X	198 740
	.....1997..	X	146 228
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	773 182
	.....1997..	X	1 597 667
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 012 361
	.....1997..	X	928 036
335911	Storage battery manufacturing		
00900001	Total materials .....2002..	X	1 805 895
	.....1997..	X	2 077 507
332000AC	Metal stampings .....2002..	X	5 506
	.....1997..	X	10 168
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings) .....2002..	X	33 013
	.....1997..	X	61 438
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	1 936
	.....1997..	X	N
33141951	Refined unalloyed lead shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	369 444
	.....1997..	X	434 281
33141953	Antimonial lead .....2002..	X	271 912
	.....1997..	X	276 636
33141955	Lead-calcium alloyed .....2002..	X	146 485
	.....1997..	X	198 170
33120016	Steel sheet and strip (including tinplate) .....2002..	X	D
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 674
	.....1997..	X	N
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32513105	Litharge .....2002..	X	23 900
	.....1997..	X	58 730
32518802	Sulfuric acid, new and spent (100 percent H2SO4) .....2002..	X	28 996
	.....1997..	X	N
325000B3	Other industrial inorganic chemicals (including mercury oxide and silver oxide) .....2002..	X	14 664
	.....1997..	X	49 617
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	17 245
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335911	Storage battery manufacturing—Con.		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	74 250
	.....1997..	X	71 993
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	215 787
	.....1997..	X	260 684
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	38 180
	.....1997..	X	D
33599101	Carbon and graphite electrodes, and other carbon and graphite products for electrical use.....2002..	X	D
	.....1997..	X	462
331000AA	Metal powders .....2002..	X	45 020
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	331 294
	.....1997..	X	456 123
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	168 695
	.....1997..	X	130 650
335912	Primary battery manufacturing		
00900001	Total materials .....2002..	X	1 118 949
	.....1997..	X	990 415
332000AC	Metal stampings .....2002..	X	137 714
	.....1997..	X	177 722
33200073	All other fabricated metal products (excluding forgings, castings, and metal stampings) .....2002..	X	49 711
	.....1997..	X	D
33100035	Castings, rough and semifinished .....2002..	X	D
	.....1997..	X	N
33141951	Refined unalloyed lead shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	—
33141955	Lead-calcium alloyed .....2002..	X	D
	.....1997..	X	—
33120016	Steel sheet and strip (including tinplate) .....2002..	X	28 628
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	88 021
	.....1997..	X	N
32513105	Litharge .....2002..	X	D
	.....1997..	X	D
325000B3	Other industrial inorganic chemicals (including mercury oxide and silver oxide) .....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	3 789
	.....1997..	X	15 744
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	35 509
	.....1997..	X	27 095
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	47 940
	.....1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	45 965
	.....1997..	X	65 721
33599101	Carbon and graphite electrodes, and other carbon and graphite products for electrical use.....2002..	X	46 871
	.....1997..	X	D
331000AA	Metal powders .....2002..	X	57 972
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	485 496
	.....1997..	X	500 919
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	63 128
	.....1997..	X	45 979
335921	Fiber optic cable manufacturing		
00900001	Total materials .....2002..	X	648 490
	.....1997..	X	1 367 474
33122200	Bare steel wire 1,000 s tons .....2002..	D	D
	.....1997..	935.1	46 702
33120003	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, and bare wire) .....2002..	X	2 441
	.....1997..	X	30 035
331000A5	Insulated copper wire and cable .....2002..	X	D
	.....1997..	X	26 351
33142147	All other copper and copper-base alloy shapes and forms (including wire bar) mil lb .....2002..	D	D
	.....1997..	D	D
33100071	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) mil lb .....2002..	D	D
	.....1997..	D	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	29 780
	.....1997..	X	92 932
32521204	Synthetic rubber .....2002..	X	D
	.....1997..	X	N
32500031	All other chemicals and allied products (excluding plastics resins and synthetic rubber) mil lb .....2002..	D	D
	.....1997..	N	N
32721501	Optical fiber, data and nondata transmission .....2002..	X	231 140
	.....1997..	X	715 673

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335921	Fiber optic cable manufacturing—Con.		
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	D
		1997.. X	13 984
31311103	Cotton yarns	2002.. X	D
		1997.. X	13 402
33593105	Connectors	2002.. X	8 907
		1997.. X	19 007
00970099	All other materials and components, parts, containers, and supplies	2002.. X	159 892
		1997.. X	328 693
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	202 823
		1997.. X	9 829
335929	Other communication and energy wire manufacturing		
00900001	Total materials	2002.. X	5 371 860
		1997.. X	7 240 322
33122200	Bare steel wire	2002.. 34.8	38 001
		1997.. 14 763.1	35 639
33120003	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, and bare wire)	2002.. X	26 454
		1997.. X	92 733
33142127	Unalloyed copper and copper-base alloy rods	2002.. P918.4	769 952
		1997.. 1 261.9	1 666 951
33142129	Alloyed copper and copper-base alloy rods	2002.. S	75 381
		1997.. 182.5	190 068
33142119	Copper and copper-base alloy wire for redrawing	2002.. P228.3	197 418
		1997.. P436.3	454 201
33100091	Bare copper and copper-base alloy wire, electrical (excluding wire for redrawing)	2002.. 666.5	598 414
		1997.. 335.6	575 395
331000A5	Insulated copper wire and cable	2002.. X	369 730
		1997.. X	149 415
33141101	Copper and copper-base alloy cathodes	2002.. D	D
		1997.. 124.8	260 751
33142147	All other copper and copper-base alloy shapes and forms (including wire bar)	2002.. S	172 557
		1997.. 187.9	312 618
33100051	Aluminum and aluminum-base alloy rods	2002.. S	210 017
		1997.. 238.7	209 251
33131900	Aluminum and aluminum-base alloy wire for redrawing	2002.. D	D
		1997.. D	D
33100089	Bare aluminum and aluminum-base alloy wire (excluding wire for redrawing)	2002.. 15.5	24 923
		1997.. P20.5	74 572
33100071	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. P68.7	86 906
		1997.. P55.3	182 736
33141941	Refined unalloyed tin shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	D
33100079	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. S	51 290
		1997.. 79.1	123 177
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	591 383
		1997.. X	1 075 276
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	127 327
		1997.. X	69 656
32521204	Synthetic rubber	2002.. X	D
		1997.. X	N
11321001	Natural rubber	2002.. X	D
		1997.. X	11 962
32500031	All other chemicals and allied products (excluding plastics resins and synthetic rubber)	2002.. 30.6	39 274
		1997.. N	N
32721501	Optical fiber, data and nondata transmission	2002.. X	D
		1997.. X	64 633
32799305	Fiberglass insulating materials	2002.. X	3 479
		1997.. X	5 500
32700003	All other stone, clay, glass, and concrete products	2002.. X	D
		1997.. X	5 446
31311103	Cotton yarns	2002.. X	3 402
		1997.. X	2 247
33593105	Connectors	2002.. X	56 260
		1997.. X	40 807
00970099	All other materials and components, parts, containers, and supplies	2002.. X	1 117 152
		1997.. X	1 557 449
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	494 333
		1997.. X	1 983
335931	Current-carrying wiring device manufacturing		
00900001	Total materials	2002.. X	2 126 838
		1997.. X	2 002 335
332000AC	Metal stampings	2002.. X	61 046
		1997.. X	86 626
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	82 254
		1997.. X	112 521
33200085	All other fabricated metal products (excluding forgings)	2002.. X	53 527
		1997.. X	65 916
33210000	Forgings	2002.. X	2 107
		1997.. X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335931	Current-carrying wiring device manufacturing—Con.		
33151001	Iron and steel castings (rough and semifinished)	X	6 268
	1997..	X	6 756
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	24 467
	1997..	X	26 812
33152500	Copper and copper-base alloy castings (rough and semifinished)	X	8 569
	1997..	X	11 828
33152009	Other nonferrous castings (rough and semifinished)	X	10 547
	1997..	X	12 628
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	6 902
	1997..	X	16 234
33120016	Steel sheet and strip (including tinplate)	X	31 228
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	4 791
	1997..	X	2 693
33142107	Copper and copper-base alloy rod, bar, and bar shapes (excluding castings, forgings, and fabricated metal products)	X	36 072
	1997..	X	25 336
33142131	Copper and copper-base alloy plate, sheet, and strip (including military cups and discs)	X	47 599
	1997..	X	132 042
33142115	All other copper and copper-base alloy mill shapes and forms, including mechanical wire (excluding castings and forgings)	X	36 696
	1997..	X	26 112
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	43 206
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	22 130
	1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	149 293
	1997..	X	120 720
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	122 135
	1997..	X	94 729
33593101	Current-carrying wiring devices	X	163 320
	1997..	X	88 320
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	X	60 977
	1997..	X	62 326
331000A1	Insulated wire and cable (excluding magnet wire)	X	42 497
	1997..	X	45 369
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	132 153
	1997..	X	56 707
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	38 988
	1997..	X	35 459
00970099	All other materials and components, parts, containers, and supplies	X	846 008
	1997..	X	666 358
00971000	Materials, ingredients, containers, and supplies, nsk	X	94 058
	1997..	X	306 843
335932	Noncurrent-carrying wiring device manufacturing		
00900001	Total materials	X	1 337 719
	1997..	X	1 787 246
332000AC	Metal stampings	X	22 798
	1997..	X	20 357
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	33 803
	1997..	X	46 809
33200085	All other fabricated metal products (excluding forgings)	X	15 496
	1997..	X	27 646
33210000	Forgings	X	D
	1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	X	130 104
	1997..	X	39 862
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	16 661
	1997..	X	58 109
33152500	Copper and copper-base alloy castings (rough and semifinished)	X	2 427
	1997..	X	2 878
33152009	Other nonferrous castings (rough and semifinished)	X	8 037
	1997..	X	12 137
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	57 702
	1997..	X	56 875
33120016	Steel sheet and strip (including tinplate)	X	276 725
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	27 626
	1997..	X	125 649
33142107	Copper and copper-base alloy rod, bar, and bar shapes (excluding castings, forgings, and fabricated metal products)	X	1 753
	1997..	X	36 788
33142131	Copper and copper-base alloy plate, sheet, and strip (including military cups and discs)	X	1 261
	1997..	X	D
33142115	All other copper and copper-base alloy mill shapes and forms, including mechanical wire (excluding castings and forgings)	X	1 524
	2002..	X	

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335932	Noncurrent-carrying wiring device manufacturing— Con.		
	1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	14 716
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper- base alloy castings, forgings, and fabricated metal products)	2002..	D
	1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002..	342 689
	1997..	X	266 020
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002..	15 502
	1997..	X	27 784
33593101	Current-carrying wiring devices	2002..	13 290
	1997..	X	38 657
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)	2002..	5 008
	1997..	X	6 217
331000A1	Insulated wire and cable (excluding magnet wire)	2002..	13 207
	1997..	X	20 411
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002..	D
	1997..	X	9 903
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	2002..	29 060
	1997..	X	37 670
00970099	All other materials and components, parts, containers, and supplies	2002..	241 872
	1997..	X	812 401
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	38 505
	1997..	X	138 918
335991	Carbon and graphite product manufacturing		
00900001	Total materials	2002..	620 273
	1997..	X	905 563
33200057	Fabricated metal products (excluding forgings)	2002..	D
	1997..	X	N
33100035	Castings, rough and semifinished	2002..	D
	1997..	X	D
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	D
	1997..	X	D
32519227	Pitch	2002..	50 815
	1997..	X	50 848
32419900	Coke (petroleum, metallurgical, calcined, foundry, etc.), used as raw material	2002..	171 823
	1997..	X	191 885
32799213	Natural graphite	2002..	6 842
	1997..	X	25 697
32799901	Artificial graphite	2002..	39 036
	1997..	X	27 111
32799201	Carbon, ground or treated	2002..	33 556
	1997..	X	43 406
00970099	All other materials and components, parts, containers, and supplies	2002..	196 482
	1997..	X	495 572
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	112 114
	1997..	X	62 920
335999	All other miscellaneous electrical equipment and component manufacturing		
00900001	Total materials	2002..	2 389 378
	1997..	X	2 833 415
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	15 330
	1997..	X	26 929
33210000	Forgings	2002..	D
	1997..	X	N
33100035	Castings, rough and semifinished	2002..	5 146
	1997..	X	7 920
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	14 953
	1997..	X	35 614
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	7 336
	1997..	X	5 268
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	35 240
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper- base alloy castings, forgings, and fabricated metal products)	2002..	11 774
	1997..	X	N
332000AC	Metal stampings	2002..	36 404
	1997..	X	N
332000A9	Sheet metal products (excluding stampings)	2002..	35 697
	1997..	X	N
33200033	Other fabricated metal products (excluding forgings)	2002..	58 128
	1997..	X	N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002..	16 475
	1997..	X	N
33441400	Capacitors for electronic circuitry	2002..	27 578
	1997..	X	N

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
335999	All other miscellaneous electrical equipment and component manufacturing—Con.		
33441500	Resistors for electronic circuitry .....2002..	X	12 011
	.....1997..	X	N
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	30 214
	.....1997..	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	130 934
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	44 881
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	124 276
	.....1997..	X	N
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	162 124
	.....1997..	X	N
33531405	Industrial electrical control equipment .....2002..	X	50 561
	.....1997..	X	N
33593101	Current-carrying wiring devices .....2002..	X	47 524
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	7 366
	.....1997..	X	42 685
33422001	Electronic communication equipment .....2002..	X	D
	.....1997..	X	4 885
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	11 170
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control) .....2002..	X	33 655
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	13 390
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	796 219
	.....1997..	X	1 636 964
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	656 210
	.....1997..	X	1 073 150
336111	Automobile manufacturing		
00900001	Total materials .....2002..	X	58 701 130
	.....1997..	X	65 491 083
33631200	Gasoline engines and parts specially designed for gasoline engines .....2002..	X	9 313 414
	.....1997..	X	10 536 759
33361803	Diesel engines and parts specially designed for diesel engines .....2002..	X	D
	.....1997..	X	D
33635007	Drive train components and parts .....2002..	X	6 020 664
	.....1997..	X	7 620 624
33621101	Car bodies .....2002..	X	1 118 330
	.....1997..	X	D
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment .....2002..	X	1 450 600
	.....1997..	X	2 026 003
33633000	Shocks, struts, and other suspension equipment and parts .....2002..	X	3 456 604
	.....1997..	X	2 341 895
33639901	Exhaust systems and parts .....2002..	X	1 761 089
	.....1997..	X	1 130 261
33351501	Machine tool accessories, including cutting tools .....2002..	X	16 160
	.....1997..	X	D
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	424 380
	.....1997..	X	266 241
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	48 010
	.....1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	67 306
	.....1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	89 880
	.....1997..	X	186 439
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	20 938
	.....1997..	X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic .....2002..	X	D
	.....1997..	X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.) .....2002..	X	4 113 245
	.....1997..	X	7 117 895
33261100	Steel springs (excluding wire) .....2002..	X	44 971
	.....1997..	X	170 801
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings .....2002..	X	415 300
	.....1997..	X	1 060 386
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	638 555
	.....1997..	X	574 259
33200049	Other fabricated metal products (excluding forgings)2002..	X	746 846
1997..	X	1 084 143

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336111	Automobile manufacturing—Con.		
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..	X	N
33100035	Castings, rough and semifinished	X	D
	.....2002..	X	D
	.....1997..	X	64 250
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	D
33299101	Ball and roller bearings (mounted or unmounted)	X	59 696
	.....2002..	X	65 814
	.....1997..	X	849 787
32621003	Pneumatic tires and inner tubes	X	1 284 894
	.....2002..	X	
	.....1997..	X	
32622001	Rubber and plastics hose and belting	X	158 387
	.....2002..	X	136 216
	.....1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	152 749
	.....2002..	X	396 373
	.....1997..	X	232 655
33999103	Gaskets (all types), and packing and sealing devices	X	D
	.....2002..	X	
	.....1997..	X	
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	X	796 289
	.....2002..	X	681 006
	.....1997..	X	1 674 855
32720005	Glass and glass products (including windows and mirrors)	X	1 055 294
	.....2002..	X	
	.....1997..	X	
33636003	Seats (purchased separately) for automobiles, trucks, and buses	X	2 456 992
	.....2002..	X	2 536 052
	.....1997..	X	
33636007	Seat covers, seat belts, and shoulder harnesses	X	389 010
	.....2002..	X	399 926
	.....1997..	X	719 468
33639911	Automotive air bag assemblies and parts	X	1 097 884
	.....2002..	X	3 757 726
	.....1997..	X	1 949 771
33636001	Automotive trimmings, textile (panels, headliners, etc.)	X	360 966
	.....2002..	X	258 784
	.....1997..	X	
31411003	Carpeting	X	
	.....2002..	X	
	.....1997..	X	
32700035	Ceramic and ceramic composite parts, components, and accessories	X	D
	.....2002..	X	D
	.....1997..	X	
32552002	Glues and adhesives	X	16 347
	.....2002..	X	N
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	321 556
	.....2002..	X	N
	.....1997..	X	
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	493 366
	.....2002..	X	1 217 588
	.....1997..	X	
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	X	525 034
	.....2002..	X	976 009
	.....1997..	X	
33511003	Automotive lamps (bulbs and sealed beams)	X	D
	.....2002..	X	483 231
	.....1997..	X	90 950
33591103	Storage batteries, automotive	X	164 809
	.....2002..	X	1 049 094
	.....1997..	X	1 294 441
33431001	Automotive radios and loudspeakers	X	
	.....2002..	X	
	.....1997..	X	
33451400	Motor vehicle clusters, meters, and gauges (including speedometers and fuel level gauges), excluding electrical	X	645 405
	.....2002..	X	766 210
	.....1997..	X	
001900C1	Semiconductors and related devices and electronic control modules	X	1 032 525
	.....2002..	X	963 257
	.....1997..	X	
33411103	Purchased computers for incorporation into motor vehicles, trucks, and buses	X	D
	.....2002..	X	D
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	9 650 018
	.....2002..	X	13 115 159
	.....1997..	X	2 232 977
00971000	Materials, ingredients, containers, and supplies, nsk	X	599 920
	.....2002..	X	
	.....1997..	X	
336112	Light truck and utility vehicle manufacturing		
00900001	Total materials	X	95 839 373
	.....2002..	X	70 450 770
	.....1997..	X	
33631200	Gasoline engines and parts specially designed for gasoline engines	X	14 729 360
	.....2002..	X	10 867 605
	.....1997..	X	
33361803	Diesel engines and parts specially designed for diesel engines	X	2 434 370
	.....2002..	X	D
	.....1997..	X	
33635007	Drive train components and parts	X	12 285 473
	.....2002..	X	13 051 022
	.....1997..	X	
33621101	Car bodies	X	D
	.....2002..	X	D
	.....1997..	X	
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	X	3 086 521
	.....2002..	X	1 811 803
	.....1997..	X	5 960 085
33633000	Shocks, struts, and other suspension equipment and parts	X	3 601 787
	.....2002..	X	2 885 017
	.....1997..	X	1 291 015
33639901	Exhaust systems and parts	X	D
	.....2002..	X	D
	.....1997..	X	
33351501	Machine tool accessories, including cutting tools	X	D
	.....2002..	X	D
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	505 368
2002..	X	156 967
1997..	X	

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336112	Light truck and utility vehicle manufacturing—Con.		
33291207	Fluid power valves (hydraulic and pneumatic)	X	7 698
	2002..	X	D
	1997..		
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	D
	2002..	X	D
	1997..		
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	207 966
	2002..	X	D
	1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic)	X	20 645
	2002..	X	D
	1997..	X	
00190087	Other transportation related fluid power products, hydraulic and pneumatic	X	D
	2002..	X	N
	1997..		
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	6 750 886
	2002..	X	9 707 741
	1997..	X	477 907
33261100	Steel springs (excluding wire)	X	732 197
	2002..	X	
	1997..		
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings	X	711 150
	2002..	X	D
	1997..		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	740 615
	2002..	X	1 179 160
	1997..	X	1 419 994
33200049	Other fabricated metal products (excluding forgings)	X	1 278 150
	2002..	X	
	1997..		
33210000	Forgings	X	25 589
	2002..	X	N
	1997..	X	
33100035	Castings, rough and semifinished	X	70 462
	2002..	X	-
	1997..	X	
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 101 388
	2002..	X	D
	1997..	X	
33299101	Ball and roller bearings (mounted or unmounted)	X	25 635
	2002..	X	15 593
	1997..	X	
32621003	Pneumatic tires and inner tubes	X	2 026 814
	2002..	X	2 139 371
	1997..		
32622001	Rubber and plastics hose and belting	X	666 186
	2002..	X	D
	1997..		
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	D
	2002..	X	D
	1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices	X	D
	2002..	X	D
	1997..	X	D
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	X	1 953 674
	2002..	X	308 198
	1997..	X	
32720005	Glass and glass products (including windows and mirrors)	X	2 092 538
	2002..	X	1 323 694
	1997..	X	
33636003	Seats (purchased separately) for automobiles, trucks, and buses	X	7 222 497
	2002..	X	2 955 253
	1997..	X	581 471
33636007	Seat covers, seat belts, and shoulder harnesses	X	545 257
	2002..	X	1 074 127
	1997..	X	1 045 713
33639911	Automotive air bag assemblies and parts	X	4 501 384
	2002..	X	2 414 163
	1997..	X	
33636001	Automotive trimmings, textile (panels, headliners, etc.)	X	847 762
	2002..	X	363 298
	1997..		
31411003	Carpeting	X	
	2002..	X	
	1997..		
32700035	Ceramic and ceramic composite parts, components, and accessories	X	D
	2002..	X	-
	1997..	X	
32552002	Glues and adhesives	X	D
	2002..	X	N
	1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	674 702
	2002..	X	N
	1997..		
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	2 445 542
	2002..	X	740 224
	1997..		
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	X	616 706
	2002..	X	D
	1997..		
33511003	Automotive lamps (bulbs and sealed beams)	X	178 798
	2002..	X	492 774
	1997..	X	387 887
33591103	Storage batteries, automotive	X	162 297
	2002..	X	1 754 254
	1997..	X	1 516 452
33431001	Automotive radios and loudspeakers	X	
	2002..	X	
	1997..		
33451400	Motor vehicle clusters, meters, and gauges (including speedometers and fuel level gauges), excluding electrical	X	1 954 689
	2002..	X	D
	1997..		
001900C1	Semiconductors and related devices and electronic control modules	X	2 172 465
	2002..	X	D
	1997..		
33411103	Purchased computers for incorporation into motor vehicles, trucks, and buses	X	307 478
	2002..	X	D
	1997..		
00970099	All other materials and components, parts, containers, and supplies	X	4 528 970
	2002..	X	4 056 276
	1997..	X	2 378 886
00971000	Materials, ingredients, containers, and supplies, nsk	X	2 077 977
	2002..	X	
	1997..		

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336120	Heavy duty truck manufacturing		
00900001	Total materials	X	12 186 660
	.....2002..	X	
	.....1997..	X	10 122 592
33631200	Gasoline engines and parts specially designed for gasoline engines	X	D
	.....2002..	X	D
	.....1997..	X	
33361803	Diesel engines and parts specially designed for diesel engines	X	1 723 853
	.....2002..	X	1 179 562
	.....1997..	X	1 095 241
33635007	Drive train components and parts	X	724 290
	.....2002..	X	D
	.....1997..	X	D
33621101	Car bodies	X	D
	.....2002..	X	D
	.....1997..	X	
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment	X	127 940
	.....2002..	X	55 155
	.....1997..	X	208 766
33633000	Shocks, struts, and other suspension equipment and parts	X	60 031
	.....2002..	X	45 092
	.....1997..	X	13 728
33639901	Exhaust systems and parts	X	4 290
	.....2002..	X	82
	.....1997..	X	
33351501	Machine tool accessories, including cutting tools	X	36 916
	.....2002..	X	16 435
	.....1997..	X	
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	20 658
	.....2002..	X	1 299
	.....1997..	X	
33291207	Fluid power valves (hydraulic and pneumatic)	X	8 742
	.....2002..	X	1 424
	.....1997..	X	
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	34 895
	.....2002..	X	4 451
	.....1997..	X	16 897
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	1 542
	.....2002..	X	D
	.....1997..	X	N
00190087	Other transportation related fluid power products, hydraulic and pneumatic	X	D
	.....2002..	X	N
	.....1997..	X	
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	169 364
	.....2002..	X	108 060
	.....1997..	X	34 548
33261100	Steel springs (excluding wire)	X	D
	.....2002..	X	
	.....1997..	X	
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings	X	35 371
	.....2002..	X	26 541
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	96 186
	.....2002..	X	38 874
	.....1997..	X	158 595
33200049	Other fabricated metal products (excluding forgings)	X	38 085
	.....2002..	X	
	.....1997..	X	
33210000	Forgings	X	D
	.....2002..	X	N
	.....1997..	X	D
33100035	Castings, rough and semifinished	X	D
	.....2002..	X	D
	.....1997..	X	
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	56 950
	.....2002..	X	15 674
	.....1997..	X	10 344
33299101	Ball and roller bearings (mounted or unmounted)	X	D
	.....2002..	X	D
	.....1997..	X	
32621003	Pneumatic tires and inner tubes	X	183 495
	.....2002..	X	68 809
	.....1997..	X	
32622001	Rubber and plastics hose and belting	X	38 408
	.....2002..	X	4 964
	.....1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	24 543
	.....2002..	X	D
	.....1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices	X	5 614
	.....2002..	X	D
	.....1997..	X	
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	X	28 062
	.....2002..	X	8 844
	.....1997..	X	
32720005	Glass and glass products (including windows and mirrors)	X	43 339
	.....2002..	X	15 893
	.....1997..	X	
33636003	Seats (purchased separately) for automobiles, trucks, and buses	X	67 237
	.....2002..	X	46 582
	.....1997..	X	7 950
33636007	Seat covers, seat belts, and shoulder harnesses	X	D
	.....2002..	X	D
	.....1997..	X	
33639911	Automotive air bag assemblies and parts	X	D
	.....2002..	X	D
	.....1997..	X	
33636001	Automotive trimmings, textile (panels, headliners, etc.)	X	87 320
	.....2002..	X	32 360
	.....1997..	X	
31411003	Carpeting	X	D
	.....2002..	X	D
	.....1997..	X	
32552002	Glues and adhesives	X	4 231
	.....2002..	X	N
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	60 611
	.....2002..	X	N
	.....1997..	X	
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	X	78 419
	.....2002..	X	32 383
	.....1997..	X	
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	X	28 123
	.....2002..	X	8 886
	.....1997..	X	
33511003	Automotive lamps (bulbs and sealed beams)	X	18 168
	.....2002..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336120	Heavy duty truck manufacturing—Con.		
	1997..	X	2 193
33591103	Storage batteries, automotive	X	29 828
	2002..	X	13 438
33431001	Automotive radios and loudspeakers	X	16 904
	1997..	X	10 910
33451400	Motor vehicle clusters, meters, and gauges (including speedometers and fuel level gauges), excluding electrical	X	51 650
	2002..	X	28 183
001900C1	Semiconductors and related devices and electronic control modules	X	56 110
	1997..	X	11 723
33411103	Purchased computers for incorporation into motor vehicles, trucks, and buses	X	D
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	X	6 367 375
	2002..	X	2 121 470
00971000	Materials, ingredients, containers, and supplies, nsk	X	932 739
	1997..	X	5 178 999
336211	Motor vehicle body manufacturing		
00900001	Total materials	X	4 770 650
	1997..	X	5 586 303
33600001	Purchased chassis for vehicles (excluding passenger cars)	X	570 735
	2002..	X	500 898
33621103	Truck bodies	X	77 120
	1997..	X	57 412
33635003	Transmissions and parts	X	45 798
	2002..	X	65 297
33621101	Car bodies	X	D
	1997..	X	14 518
33633000	Shocks, struts, and other suspension equipment and parts	X	42 421
	2002..	X	16 046
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	D
	1997..	X	69 082
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings	X	29 123
	2002..	X	106 313
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	39 772
	1997..	X	35 638
33200091	Other fabricated metal products (excluding forgings)	X	95 973
	2002..	X	100 875
33210000	Forgings	X	D
	2002..	X	N
33100035	Castings, rough and semifinished	X	47 336
	1997..	X	N
00190090	Fluid power products	X	162 436
	2002..	X	125 009
32621003	Pneumatic tires and inner tubes	X	12 061
	1997..	X	24 805
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	X	24 125
	2002..	X	16 730
32720005	Glass and glass products (including windows and mirrors)	X	19 340
	1997..	X	26 009
33636003	Seats (purchased separately) for automobiles, trucks, and buses	X	36 081
	2002..	X	33 732
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	50 058
	1997..	X	N
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	X	37 529
	2002..	X	29 285
33511003	Automotive lamps (bulbs and sealed beams)	X	2 632
	1997..	X	4 180
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	41 665
	2002..	X	99 598
33120016	Steel sheet and strip (including tinplate)	X	107 511
	1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	15 973
	2002..	X	47 892
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	44 204
	1997..	X	33 640
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	71 684
	2002..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X	55 273
	1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	X	12 963
	2002..	X	D
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 026
	1997..	X	D
32100019	Rough and dressed lumber	X	41 126
	2002..	X	20 005
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336211	Motor vehicle body manufacturing—Con.		
33639903	Other motor vehicle wheel parts, metal (axles, brakes, drums, rims, wheels, etc.)	2002.. X	56 123
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	2 743 456
	.....1997..	X	1 312 220
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	91 338
	.....1997..	X	2 736 548
336212	Truck trailer manufacturing		
00900001	Total materials	2002.. X	2 375 744
	.....1997..	X	3 489 063
33600001	Purchased chassis for vehicles (excluding passenger cars)	2002.. X	1 101
	.....1997..	X	9 371
33621103	Truck bodies	2002.. X	2 186
	.....1997..	X	4 879
33635003	Transmissions and parts	2002.. X	D
	.....1997..	X	3 512
33639903	Other motor vehicle wheel parts, metal (axles, brakes, drums, rims, wheels, etc.)	2002.. X	143 963
	.....1997..	X	N
33621101	Car bodies.....	2002.. X	D
	.....1997..	X	N
33633000	Shocks, struts, and other suspension equipment and parts	2002.. X	91 464
	.....1997..	X	147 788
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	2002.. X	635
	.....1997..	X	D
33251011	Motor vehicle metal hardware (lock units, door and window handles, hinges, etc.), excluding forgings	2002.. X	8 524
	.....1997..	X	9 386
33200091	Other fabricated metal products (excluding forgings)	2002.. X	42 769
	.....1997..	X	79 950
33210000	Forgings	2002.. X	3 998
	.....1997..	X	N
33100035	Castings, rough and semifinished	2002.. X	7 211
	.....1997..	X	13 917
00190090	Fluid power products	2002.. X	46 389
	.....1997..	X	38 804
32621003	Pneumatic tires and inner tubes	2002.. X	104 412
	.....1997..	X	320 024
32610033	Fabricated plastics products (including components, housings, accessories, etc.), excluding gaskets, hose and belting	2002.. X	12 019
	.....1997..	X	5 018
32720005	Glass and glass products (including windows and mirrors)	2002.. X	D
	.....1997..	X	D
33636003	Seats (purchased separately) for automobiles, trucks, and buses	2002.. X	D
	.....1997..	X	D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	30 498
	.....1997..	X	N
33632100	Motor vehicle lighting fixtures (including headlights, taillights, running lights, and dome fixtures), excluding auto lamps	2002.. X	19 408
	.....1997..	X	22 900
33511003	Automotive lamps (bulbs and sealed beams)	2002.. X	1 751
	.....1997..	X	1 752
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	66 130
	.....1997..	X	106 850
33120016	Steel sheet and strip (including tinplate)	2002.. X	61 543
	.....1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X	14 017
	.....1997..	X	50 678
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X	15 074
	.....1997..	X	77 548
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	137 040
	.....1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002.. X	129 029
	.....1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002.. X	9 246
	.....1997..	X	36 737
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	2 131
	.....1997..	X	2 846
32100019	Rough and dressed lumber	2002.. X	60 519
	.....1997..	X	235 950
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	39 012
	.....1997..	X	34 896
00970099	All other materials and components, parts, containers, and supplies	2002.. X	250 702
	.....1997..	X	2 016 943
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	1 068 013
1997..	X	248 988

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336213	Motor home manufacturing		
00900001	Total materials .....2002..	X	3 633 785
	.....1997..	X	2 641 366
33600003	Other metal vehicular parts (axles, wheels, brakes, undercarriages, etc.) .....2002..	X	219 769
	.....1997..	X	160 079
32621003	Pneumatic tires and inner tubes .....2002..	X	8 543
	.....1997..	X	14 218
33612000	Purchased chassis for motor homes .....2002..	X	952 172
	.....1997..	X	937 693
001900B2	Household appliances (including refrigerators, cooking equipment, and other household appliances), excluding air conditioners .....2002..	X	122 280
	.....1997..	X	118 833
001900A7	Air-conditioning equipment .....2002..	X	37 585
	.....1997..	X	41 848
33341401	Metal heating equipment (excluding electric) .....2002..	X	8 559
	.....1997..	X	19 280
33232101	Metal doors and door units, windows and window units .....2002..	X	33 912
	.....1997..	X	41 735
33291300	Metal plumbing fixtures, fittings, and trim (including enameled), excluding forgings .....2002..	X	21 256
	.....1997..	X	26 314
332000A9	Sheet metal products (excluding stampings) .....2002..	X	15 865
	.....1997..	X	36 437
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	13 686
	.....1997..	X	12 241
33200083	Other fabricated metal products (excluding forgings, heating equipment, metal doors, door units, metal plumbing fixtures, sheet metal products, bolts, nuts, and screws) .....2002..	X	54 821
	.....1997..	X	9 683
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	D
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	37 800
	.....1997..	X	44 873
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	59 729
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 564
	.....1997..	X	5 791
33593101	Current-carrying wiring devices .....2002..	X	93 685
	.....1997..	X	84 220
32121003	Plywood .....2002..	X	33 692
	.....1997..	X	79 195
32100020	Lumber, dressed .....2002..	X	36 841
	.....1997..	X	N
00190099	Millwork, wood (including wood doors, window sash, moldings, and cabinets) .....2002..	X	47 023
	.....1997..	X	75 862
32720005	Glass and glass products (including windows and mirrors) .....2002..	X	30 943
	.....1997..	X	35 418
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	39 355
	.....1997..	X	33 827
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	33 131
	.....1997..	X	18 750
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	9 304
	.....1997..	X	13 517
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	41 742
	.....1997..	X	N
31411003	Carpeting .....2002..	X	22 801
	.....1997..	X	38 135
31412100	Curtains and draperies .....2002..	X	38 070
	.....1997..	X	44 197
00190075	Molded composites .....2002..	X	37 475
	.....1997..	X	62 331
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	861 143
	.....1997..	X	479 848
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	706 392
	.....1997..	X	204 574
336214	Travel trailer and camper manufacturing		
00900001	Total materials .....2002..	X	3 936 694
	.....1997..	X	2 670 549
33600003	Other metal vehicular parts (axles, wheels, brakes, undercarriages, etc.) .....2002..	X	275 899
	.....1997..	X	253 416
32621003	Pneumatic tires and inner tubes .....2002..	X	64 412
	.....1997..	X	82 155
33612000	Purchased chassis for motor homes .....2002..	X	60 312
	.....1997..	X	33 983
001900B2	Household appliances (including refrigerators, cooking equipment, and other household appliances), excluding air conditioners .....2002..	X	96 100
	.....1997..	X	121 082

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336214	Travel trailer and camper manufacturing—Con.		
001900A7	Air-conditioning equipment.....2002..	X	50 321
	.....1997..	X	43 445
33341401	Metal heating equipment (excluding electric).....2002..	X	25 832
	.....1997..	X	N
33232101	Metal doors and door units, windows and window units.....2002..	X	81 701
	.....1997..	X	N
33291300	Metal plumbing fixtures, fittings, and trim (including enameled), excluding forgings.....2002..	X	20 584
	.....1997..	X	N
332000A9	Sheet metal products (excluding stampings).....2002..	X	64 470
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	36 748
	.....1997..	X	N
33200083	Other fabricated metal products (excluding forgings, heating equipment, metal doors, door units, metal plumbing fixtures, sheet metal products, bolts, nuts, and screws).....2002..	X	68 954
	.....1997..	X	N
33210000	Forgings.....2002..	X	3 247
	.....1997..	X	N
33100035	Castings, rough and semifinished.....2002..	X	6 567
	.....1997..	X	D
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	165 350
	.....1997..	X	153 568
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	190 756
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	10 766
	.....1997..	X	3 800
33593101	Current-carrying wiring devices.....2002..	X	70 417
	.....1997..	X	42 236
32121003	Plywood.....2002..	X	100 725
	.....1997..	X	N
32100020	Lumber, dressed.....2002..	X	62 095
	.....1997..	X	N
00190099	Millwork, wood (including wood doors, window sash, moldings, and cabinets).....2002..	X	53 458
	.....1997..	X	N
32720005	Glass and glass products (including windows and mirrors).....2002..	X	67 996
	.....1997..	X	77 642
32610011	Fabricated plastics products (excluding gaskets).....2002..	X	33 498
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes.....2002..	X	38 590
	.....1997..	X	29 206
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.....2002..	X	17 541
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product.....2002..	X	38 567
	.....1997..	X	N
31411003	Carpeting.....2002..	X	25 511
	.....1997..	X	28 821
31412100	Curtains and draperies.....2002..	X	35 353
	.....1997..	X	28 543
00190075	Molded composites.....2002..	X	34 282
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	560 092
	.....1997..	X	1 186 482
00971000	Materials, ingredients, containers, and supplies, nsk.....2002..	X	1 576 550
	.....1997..	X	584 587
336311	Carburetor, piston, piston ring, and valve manufacturing		
00900001	Total materials.....2002..	X	522 305
	.....1997..	X	1 012 271
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products.....2002..	X	1 399
	.....1997..	X	51 501
33200095	Other fabricated metal products (excluding castings and forgings).....2002..	X	3 678
	.....1997..	X	31 984
33151001	Iron and steel castings (rough and semifinished).....2002..	X	128 040
	.....1997..	X	77 362
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished).....2002..	X	194 284
	.....1997..	X	243 996
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy).....2002..	X	D
	.....1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products).....2002..	X	26 980
	.....1997..	X	53 011
33120085	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	120 061
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	4 490
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products).....2002..	X	D
	.....1997..	X	D

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336311	Carburetor, piston, piston ring, and valve manufacturing—Con.		
32221001	Paperboard containers, boxes, and corrugated paperboard	X	2 610
	.....2002..	X	7 938
00190003	Flexible packaging materials	X	914
	.....2002..	X	389
	.....1997..	X	1 350
33999103	Gaskets (all types), and packing and sealing devices	X	9 156
	.....2002..	X	67 491
00970099	All other materials and components, parts, containers, and supplies	X	289 578
	.....2002..	X	35 540
00971000	Materials, ingredients, containers, and supplies, nsk	X	50 522
	.....1997..	X	
336312	Gasoline engine and engine parts manufacturing		
00900001	Total materials	X	20 638 470
	.....2002..	X	16 897 131
33151001	Iron and steel castings (rough and semifinished)	X	3 854 218
	.....2002..	X	2 968 701
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	1 367 105
	.....2002..	X	941 482
	.....1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	56 091
	.....2002..	X	D
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	153 809
	.....2002..	X	268 524
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	38 539
	.....2002..	X	N
	.....1997..	X	
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	110 972
	.....2002..	X	69 640
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	25 436
	.....2002..	X	21 405
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	116 279
	.....2002..	X	N
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	17 799
	.....2002..	X	N
	.....1997..	X	
33299101	Ball and roller bearings (mounted or unmounted)	X	192 527
	.....2002..	X	N
	.....1997..	X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	234 183
	.....2002..	X	N
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	104 421
	.....2002..	X	36 449
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	141 166
	.....2002..	X	43 125
	.....1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	16 302
	.....2002..	X	73 678
	.....1997..	X	
32622001	Rubber and plastics hose and belting	X	91 010
	.....2002..	X	87 470
	.....1997..	X	
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses	X	D
	.....2002..	X	43 091
	.....1997..	X	
32700035	Ceramic and ceramic composite parts, components, and accessories	X	D
	.....2002..	X	19 277
	.....1997..	X	
33999103	Gaskets (all types), and packing and sealing devices	X	214 354
	.....2002..	X	83 677
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	D
	.....2002..	X	N
	.....1997..	X	
32552002	Glues and adhesives	X	5 551
	.....2002..	X	N
	.....1997..	X	
00190003	Flexible packaging materials	X	12 315
	.....2002..	X	5 090
	.....1997..	X	
32220015	Paper and paperboard containers	X	45 387
	.....2002..	X	29 243
	.....1997..	X	
33632201	Spark plugs for internal combustion engines	X	65 934
	.....2002..	X	N
	.....1997..	X	
33632202	Generators for internal combustion engines	X	D
	.....2002..	X	N
	.....1997..	X	
33632203	Starting motors for internal combustion engines	X	19 559
	.....2002..	X	N
	.....1997..	X	
33632204	Distributors for internal combustion engines	X	14 501
	.....2002..	X	N
	.....1997..	X	
33632205	Ignition coils for internal combustion engines	X	104 786
	.....2002..	X	N
	.....1997..	X	
33632206	Ignition harness and cable sets for internal combustion engines	X	53 710
	.....2002..	X	N
	.....1997..	X	
33632219	All other engine electrical equipment for internal combustion engines	X	140 670
	.....2002..	X	N
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336312	Gasoline engine and engine parts manufacturing— Con.		
33632207	Magnetos, magneto-dynamos, and magnetic flywheels for internal combustion engines .....2002..	X	D
	.....1997..	X	N
33361813	Turbochargers .....2002..	X	D
	.....1997..	X	N
33361815	Injection fuel pumps .....2002..	X	115 797
	.....1997..	X	N
33361817	Machined engine blocks .....2002..	X	D
	.....1997..	X	N
33441500	Resistors for electronic circuitry .....2002..	X	D
	.....1997..	X	N
33441400	Capacitors for electronic circuitry .....2002..	X	D
	.....1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	26 631
	.....1997..	X	N
00190033	Used engine electrical equipment for rebuilding, or to be used in rebuilding (starting motors, generators, etc.) .....2002..	X	D
	.....1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	507 732
	.....1997..	X	N
00999826	Core parts purchased for use in remanufacturing and rebuilding.....2002..	X	407 895
	.....1997..	X	71 632
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	14 968
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	293 470
	.....1997..	X	530 646
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products) .....2002..	X	1 595 695
	.....1997..	X	2 378 644
33210000	Forgings .....2002..	X	239 599
	.....1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire) .....2002..	X	D
	.....1997..	X	N
33100097	Magnet wire .....2002..	X	2 155
	.....1997..	X	N
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	D
	.....1997..	X	N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	963 761
	.....1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	408 306
	.....1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	77 075
	.....1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	68 456
	.....1997..	X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic .....2002..	X	69 187
	.....1997..	X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.) .....2002..	X	415 716
	.....1997..	X	345 968
33593101	Current-carrying wiring devices .....2002..	X	50 458
	.....1997..	X	N
32500046	Other chemicals and allied products .....2002..	X	33 252
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	6 735 666
	.....1997..	X	4 287 428
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	908 988
	.....1997..	X	2 700 239
336321	Vehicular lighting equipment manufacturing		
00900001	Total materials .....2002..	X	1 432 942
	.....1997..	X	1 523 445
33531100	Specialty transformers and fluorescent ballasts .....2002..	X	15 107
	.....1997..	X	4 127
33593101	Current-carrying wiring devices .....2002..	X	132 345
	.....1997..	X	89 003
33511001	Electric lamp bulbs .....2002..	X	112 012
	.....1997..	X	96 831
32721101	Flat glass (plate, float, and sheet) .....2002..	X	1 081
	.....1997..	X	1 496
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	224 161
	.....1997..	X	287 587
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	99 231
	.....1997..	X	24 605
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	124 134
	.....1997..	X	138 778
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	32 956
	.....1997..	X	25 438
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	39 394

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336321	Vehicular lighting equipment manufacturing—Con.		
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	1997.. X	62 270
	.....2002..	X	58 647
	.....1997..	X	50 374
33299903	Metal poles	2002.. X	D
	.....1997..	X	D
33200027	All other fabricated metal products (excluding forgings)	2002.. X	67 503
	.....1997..	X	35 669
33151001	Iron and steel castings (rough and semifinished)	2002.. X	D
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X	9 781
	.....1997..	X	4 830
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X	D
	.....1997..	X	D
33120016	Steel sheet and strip (including tinplate)	2002.. X	2 078
	.....1997..	X	N
33120025	Steel wire and wire products	2002.. X	727
	.....1997..	X	D
33120097	All other steel mill shapes and forms (excluding castings and forgings)	2002.. X	D
	.....1997..	X	D
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	6 879
	.....1997..	X	N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002.. X	7 622
	.....1997..	X	N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002.. X	2 287
	.....1997..	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
	.....1997..	X	817
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	D
	.....1997..	X	N
33512100	Lamp shades	2002.. X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	2002.. X	228 973
	.....1997..	X	583 839
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	192 469
	.....1997..	X	66 844
336322	Other motor vehicle electrical and electronic equipment manufacturing		
00900001	Total materials	2002.. X	9 044 249
	.....1997..	X	8 696 435
33151001	Iron and steel castings (rough and semifinished)	2002.. X	225 193
	.....1997..	X	25 476
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X	D
	.....1997..	X	65 041
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X	15 979
	.....1997..	X	1 399
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	4 881
	.....1997..	X	11 970
33120016	Steel sheet and strip (including tinplate)	2002.. X	13 622
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	48 717
	.....1997..	X	15 776
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	114 789
	.....1997..	X	315 636
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	22 204
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	D
	.....1997..	X	N
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X	32 914
	.....1997..	X	42 565
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002.. X	266 117
	.....1997..	X	197 179
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	53 426
	.....1997..	X	27 649
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	83 134
	.....1997..	X	179 554
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X	14 267
	.....1997..	X	134 383

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336322	Other motor vehicle electrical and electronic equipment manufacturing—Con.		
32622001	Rubber and plastics hose and belting 2002..	X	D
	1997..	X	3 368
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses 2002..	X	D
	1997..	X	D
32700035	Ceramic and ceramic composite parts, components, and accessories 2002..	X	D
	1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices 2002..	X	D
	1997..	X	4 676
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product 2002..	X	7 773
	1997..	X	N
32552002	Glues and adhesives 2002..	X	6 476
	1997..	X	N
00190003	Flexible packaging materials 2002..	X	4 093
	1997..	X	D
32220015	Paper and paperboard containers 2002..	X	37 264
	1997..	X	17 146
33632201	Spark plugs for internal combustion engines 2002..	X	D
	1997..	X	N
33632202	Generators for internal combustion engines 2002..	X	29 618
	1997..	X	N
33632203	Starting motors for internal combustion engines 2002..	X	58 363
	1997..	X	N
33632204	Distributors for internal combustion engines 2002..	X	D
	1997..	X	N
33632205	Ignition coils for internal combustion engines 2002..	X	51 053
	1997..	X	N
33632206	Ignition harness and cable sets for internal combustion engines 2002..	X	37 018
	1997..	X	N
33632219	All other engine electrical equipment for internal combustion engines 2002..	X	D
	1997..	X	N
33632207	Magnetos, magneto-dynamos, and magnetic flywheels for internal combustion engines 2002..	X	13 646
	1997..	X	N
33361815	Injection fuel pumps 2002..	X	D
	1997..	X	N
33441500	Resistors for electronic circuitry 2002..	X	42 527
	1997..	X	116 689
33441400	Capacitors for electronic circuitry 2002..	X	69 107
	1997..	X	155 570
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry 2002..	X	845 288
	1997..	X	844 372
00190033	Used engine electrical equipment for rebuilding, or to be used in rebuilding (starting motors, generators, etc.) 2002..	X	D
	1997..	X	127 398
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) 2002..	X	469 166
	1997..	X	214 167
00999826	Core parts purchased for use in remanufacturing and rebuilding 2002..	X	306 150
	1997..	X	33 529
33441200	Printed circuit boards (without inserted components) for electronic circuitry 2002..	X	636 282
	1997..	X	301 117
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products 2002..	X	133 431
	1997..	X	374 618
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products) 2002..	X	165 269
	1997..	X	27 597
33210000	Forgings 2002..	X	D
	1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire) 2002..	X	74 606
	1997..	X	N
33100097	Magnet wire 2002..	X	30 307
	1997..	X	53 726
33361200	Mechanical speed changers, gears, and industrial high-speed drives 2002..	X	357
	1997..	X	D
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) 2002..	X	179 680
	1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic) 2002..	X	D
	1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) 2002..	X	34 582
	1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic) 2002..	X	8 733
	1997..	X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic 2002..	X	D
	1997..	X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.) 2002..	X	92 403
	1997..	X	55 569
33593101	Current-carrying wiring devices 2002..	X	177 911
	1997..	X	83 083
32500046	Other chemicals and allied products 2002..	X	8 790
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336322	Other motor vehicle electrical and electronic equipment manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	X	1 545 686
	.....2002..	X	3 459 458
	.....1997..	X	1 957 259
00971000	Materials, ingredients, containers, and supplies, nsk	X	1 530 973
	.....2002..	X	
	.....1997..	X	
336330	Motor vehicle steering and suspension component (except spring) manufacturing		
00900001	Total materials	X	5 260 384
	.....2002..	X	5 151 048
	.....1997..	X	600 937
33151001	Iron and steel castings (rough and semifinished)	X	377 459
	.....2002..	X	
	.....1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	122 616
	.....2002..	X	287 185
	.....1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	D
	.....2002..	X	D
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	265 741
	.....2002..	X	553 492
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	166 729
	.....2002..	X	N
	.....1997..	X	
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	137 666
	.....2002..	X	237 988
	.....1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 599
	.....2002..	X	N
	.....1997..	X	
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	N
	.....1997..	X	
33299101	Ball and roller bearings (mounted or unmounted)	X	124 268
	.....2002..	X	N
	.....1997..	X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	X	80 958
	.....2002..	X	N
	.....1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	28 908
	.....2002..	X	33 903
	.....1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	16 412
	.....2002..	X	34 674
	.....1997..	X	
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	144 861
	.....2002..	X	155 647
	.....1997..	X	
32622001	Rubber and plastics hose and belting	X	28 009
	.....2002..	X	74 154
	.....1997..	X	
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses	X	D
	.....2002..	X	D
	.....1997..	X	
32700035	Ceramic and ceramic composite parts, components, and accessories	X	D
	.....2002..	X	D
	.....1997..	X	
33999103	Gaskets (all types), and packing and sealing devices	X	37 523
	.....2002..	X	26 421
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	26 465
	.....2002..	X	N
	.....1997..	X	
32552002	Glues and adhesives	X	2 356
	.....2002..	X	N
	.....1997..	X	
00190003	Flexible packaging materials	X	11 596
	.....2002..	X	D
	.....1997..	X	
32220015	Paper and paperboard containers	X	16 544
	.....2002..	X	38 418
	.....1997..	X	
33632205	Ignition coils for internal combustion engines	X	D
	.....2002..	X	N
	.....1997..	X	
33632206	Ignition harness and cable sets for internal combustion engines	X	D
	.....2002..	X	N
	.....1997..	X	
33632219	All other engine electrical equipment for internal combustion engines	X	D
	.....2002..	X	N
	.....1997..	X	
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	D
	.....2002..	X	N
	.....1997..	X	
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	178 088
	.....2002..	X	N
	.....1997..	X	
00999826	Core parts purchased for use in remanufacturing and rebuilding	X	213 073
	.....2002..	X	130 276
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	105 864
	.....2002..	X	123 850
	.....1997..	X	
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products)	X	560 102
	.....2002..	X	397 398
	.....1997..	X	187 981
33210000	Forgings	X	N
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336330	Motor vehicle steering and suspension component (except spring) manufacturing— Con.		
331000A1	Insulated wire and cable (excluding magnet wire)	2002.. X	D
		1997.. X	N
33100097	Magnet wire	2002.. X	D
		1997.. X	N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	D
		1997.. X	D
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	D
		1997.. X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	D
		1997.. X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	85 160
		1997.. X	D
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	385
		1997.. X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002.. X	1 487
		1997.. X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	2002.. X	129 830
		1997.. X	280 490
33593101	Current-carrying wiring devices	2002.. X	D
		1997.. X	N
32500046	Other chemicals and allied products	2002.. X	25 437
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	906 613
		1997.. X	1 734 291
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	695 075
		1997.. X	207 212
336340	Motor vehicle brake system manufacturing		
00900001	Total materials	2002.. X	6 722 252
		1997.. X	6 207 123
33151001	Iron and steel castings (rough and semifinished)	2002.. X	1 203 527
		1997.. X	935 083
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X	95 278
		1997.. X	185 700
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X	D
		1997.. X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	39 420
		1997.. X	58 556
33120016	Steel sheet and strip (including tinplate)	2002.. X	43 112
		1997.. X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	187 853
		1997.. X	23 217
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	7 941
		1997.. X	7 064
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	79 980
		1997.. X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	73 605
		1997.. X	N
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X	D
		1997.. X	N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002.. X	62 641
		1997.. X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	D
		1997.. X	14 132
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	19 817
		1997.. X	24 900
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X	59 917
		1997.. X	149 270
32622001	Rubber and plastics hose and belting	2002.. X	23 818
		1997.. X	20 692
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses	2002.. X	24 338
		1997.. X	101 091
32700035	Ceramic and ceramic composite parts, components, and accessories	2002.. X	D
		1997.. X	D
33999103	Gaskets (all types), and packing and sealing devices	2002.. X	69 037
		1997.. X	24 353
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	5 309
		1997.. X	N
32552002	Glues and adhesives	2002.. X	6 240
		1997.. X	N
00190003	Flexible packaging materials	2002.. X	10 612
		1997.. X	10 076
32220015	Paper and paperboard containers	2002.. X	35 043
		1997.. X	31 390

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336340	Motor vehicle brake system manufacturing—Con.		
33632201	Spark plugs for internal combustion engines	X	D
	2002..	X	N
	1997..	X	N
33632203	Starting motors for internal combustion engines	X	D
	2002..	X	N
	1997..	X	N
33632206	Ignition harness and cable sets for internal combustion engines	X	D
	2002..	X	N
	1997..	X	N
33632219	All other engine electrical equipment for internal combustion engines	X	D
	2002..	X	N
	1997..	X	N
33441500	Resistors for electronic circuitry	X	D
	2002..	X	N
	1997..	X	N
33441400	Capacitors for electronic circuitry	X	D
	2002..	X	N
	1997..	X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	X	D
	2002..	X	N
	1997..	X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	X	27 374
	2002..	X	N
	1997..	X	N
00999826	Core parts purchased for use in remanufacturing and rebuilding	X	330 256
	2002..	X	112 301
	1997..	X	
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	D
	2002..	X	N
	1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	217 014
	2002..	X	435 159
	1997..	X	
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products)	X	175 995
	2002..	X	276 189
	1997..	X	185 216
33210000	Forgings	X	N
	2002..	X	N
	1997..	X	N
331000A1	Insulated wire and cable (excluding magnet wire)	X	16 448
	2002..	X	N
	1997..	X	N
33100097	Magnet wire	X	D
	2002..	X	N
	1997..	X	N
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	D
	2002..	X	N
	1997..	X	N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	X	12 092
	2002..	X	D
	1997..	X	D
33291207	Fluid power valves (hydraulic and pneumatic)	X	17 091
	2002..	X	D
	1997..	X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	X	40 912
	2002..	X	D
	1997..	X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	X	31 411
	2002..	X	D
	1997..	X	D
33399901	Fluid power filters (hydraulic and pneumatic)	X	D
	2002..	X	D
	1997..	X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic	X	976
	2002..	X	N
	1997..	X	N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	386 610
	2002..	X	303 036
	1997..	X	7 256
33593101	Current-carrying wiring devices	X	N
	2002..	X	N
	1997..	X	N
32500046	Other chemicals and allied products	X	104 890
	2002..	X	N
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	1 704 847
	2002..	X	2 401 710
	1997..	X	1 137 341
00971000	Materials, ingredients, containers, and supplies, nsk	X	482 033
	2002..	X	
	1997..	X	
336350	Motor vehicle transmission and power train parts manufacturing		
00900001	Total materials	X	19 821 943
	2002..	X	17 415 342
	1997..	X	2 353 812
33151001	Iron and steel castings (rough and semifinished)	X	2 590 475
	2002..	X	
	1997..	X	
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	1 446 052
	2002..	X	1 533 356
	1997..	X	
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	X	D
	2002..	X	267 904
	1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	476 359
	2002..	X	585 776
	1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	167 687
	2002..	X	N
	1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	605 323
	2002..	X	736 574
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	15 056
	2002..	X	12 908
	1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	149 166
	2002..	X	N
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336350	Motor vehicle transmission and power train parts manufacturing—Con.		
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	2002.. X	30 425
		1997.. N	
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X	379 586
		1997.. X	
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002.. X	100 677
		1997.. X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	11 245
		1997.. X	8 596
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	28 683
		1997.. X	28 456
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X	54 473
		1997.. X	27 288
32622001	Rubber and plastics hose and belting	2002.. X	D
		1997.. X	21 779
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses	2002.. X	D
		1997.. X	D
32700035	Ceramic and ceramic composite parts, components, and accessories	2002.. X	D
		1997.. X	D
33999103	Gaskets (all types), and packing and sealing devices	2002.. X	129 136
		1997.. X	113 884
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	D
		1997.. X	N
32552002	Glues and adhesives	2002.. X	6 612
		1997.. X	N
00190003	Flexible packaging materials	2002.. X	6 434
		1997.. X	5 130
32220015	Paper and paperboard containers	2002.. X	27 711
		1997.. X	40 526
33632203	Starting motors for internal combustion engines	2002.. X	D
		1997.. X	N
33632206	Ignition harness and cable sets for internal combustion engines	2002.. X	D
		1997.. X	N
33632219	All other engine electrical equipment for internal combustion engines	2002.. X	79 909
		1997.. X	N
33441500	Resistors for electronic circuitry	2002.. X	D
		1997.. X	N
33441400	Capacitors for electronic circuitry	2002.. X	D
		1997.. X	N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002.. X	D
		1997.. X	N
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	2002.. X	543 601
		1997.. X	N
00999826	Core parts purchased for use in remanufacturing and rebuilding	2002.. X	907 171
		1997.. X	632 526
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X	D
		1997.. X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	406 708
		1997.. X	399 463
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products)	2002.. X	2 939 864
		1997.. X	3 102 433
33210000	Forgings	2002.. X	1 377 006
		1997.. X	N
331000A1	Insulated wire and cable (excluding magnet wire)	2002.. X	D
		1997.. X	N
33100097	Magnet wire	2002.. X	4 762
		1997.. X	N
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X	492 823
		1997.. X	N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	D
		1997.. X	D
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	57 004
		1997.. X	D
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	819
		1997.. X	D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	23 889
		1997.. X	D
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	15 814
		1997.. X	D
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002.. X	D
		1997.. X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336350	Motor vehicle transmission and power train parts manufacturing—Con.		
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	X	608 985
33593101	Current-carrying wiring devices	X	595 888
32500046	Other chemicals and allied products	X	163 617
00970099	All other materials and components, parts, containers, and supplies	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	X	51 775
		X	N
336360	Motor vehicle seating and interior trim manufacturing		
00900001	Total materials	X	11 656 349
31321013	Polyester broadwoven fabrics (piece goods)	X	7 399 541
31321003	Cotton broadwoven fabrics (piece goods)	X	194 930
31321009	Rayon and acetate broadwoven fabrics (piece goods)	X	194 830
31321015	Nylon broadwoven fabrics (piece goods)	X	9 773
		X	D
		X	D
		X	D
31321019	Uncoated broadwoven fabrics for upholstery	X	8 412
		X	N
31321021	Other broadwoven fabrics (piece goods)	X	213 875
		X	N
31322103	Narrow fabrics (12 inches or less in width)	X	256 840
31311003	Yarn, all fibers	X	704 517
31332001	Fabrics (plastics coated, impregnated, and laminated)	X	20 481
		X	D
		X	D
		X	D
31699900	Leather and other material cut stock and findings	X	234 589
32520003	Manmade fibers, staple, and tow	X	10 604
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	349 938
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	773 140
332000AC	Metal stampings	X	1 339 979
		X	N
33200043	All other fabricated metal products (excluding castings and forgings)	X	144 720
33100035	Castings, rough and semifinished	X	N
33120016	Steel sheet and strip (including tinplate)	X	172 177
33120083	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	382 127
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	527 980
		X	181 899
		X	741 218
		X	404 315
32100025	Hardwood lumber, rough and dressed	X	1 038 835
32619909	Plastics furniture parts and components	X	488 145
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	6 448
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	8 742
32221001	Paperboard containers, boxes, and corrugated paperboard	X	60 066
00970099	All other materials and components, parts, containers, and supplies	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	X	107 762
		X	114 331
		X	26 105
		X	N
336370	Motor vehicle metal stamping		
00900001	Total materials	X	D
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	8 501
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products)	X	112 004
33200095	Other fabricated metal products (excluding castings and forgings)	X	91 497
33151001	Iron and steel castings (rough and semifinished)	X	477 277
		X	353 127
		X	20 976
		X	57 960
		X	31 711
		X	78 239
		X	4 463 322
		X	2 337 665
		X	1 091 447
		X	1 174 101
		X	12 247 146
		X	11 437 961
		X	362 551
		X	354 859
		X	D
		X	1 231 941
		X	482 964
		X	844 168
		X	417 367
		X	107 703

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336370	Motor vehicle metal stamping—Con.		
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)		
	.....2002..	X	22 705
	.....1997..	X	4 658
33210000	Forgings		
	.....2002..	X	D
	.....1997..	X	N
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products)		
	.....2002..	X	82 640
	.....1997..	X	28 276
33120017	Steel sheet and strip (including tin plate)..... 1,000 s tons	98 356.0	5 674 442
	.....2002..	X	6 096 450
	.....1997..	98 982.2	15 112
33120079	Steel plate		
	.....2002..	X	15 459
	.....1997..	X	
33120025	Steel wire and wire products		
	.....2002..	X	46 453
	.....1997..	X	34 093
33120013	Steel tinplate, tin free steel, terneplate, and blackplate		
	..... 1,000 s tons	S	11 015
	.....2002..	941.1	27 123
	.....1997..		
33120028	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, wire, wire products, tinplate, tin free steel terneplate, and blackplate)		
	.....2002..	X	427 640
	.....1997..	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)		
	.....2002..	X	42 361
	.....1997..	X	74 861
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing		
	.....2002..	X	188 871
	.....1997..	X	N
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.)		
	..... mil lb	43.0	57 604
	.....2002..	S	34 365
	.....1997..		
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)		
	.....2002..	X	23 841
	.....1997..	X	24 677
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)		
	.....2002..	X	14 325
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.		
	.....2002..	X	28 468
	.....1997..	X	37 341
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product		
	.....2002..	X	26 034
	.....1997..	X	N
32500051	All other chemicals and allied products (excluding plastics materials and resins and paints, varnishes and allied products)		
	.....2002..	X	11 128
	.....1997..	X	32 378
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes		
	.....2002..	X	37 084
	.....1997..	X	39 620
32221001	Paperboard containers, boxes, and corrugated paperboard		
	.....2002..	X	83 882
	.....1997..	X	65 744
32200007	Other paper and paperboard products		
	.....2002..	X	D
	.....1997..	X	1 972
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)		
	.....2002..	X	29 912
	.....1997..	X	211 401
00970099	All other materials and components, parts, containers, and supplies		
	.....2002..	X	2 289 365
	.....1997..	X	1 444 436
00971000	Materials, ingredients, containers, and supplies, nsk		
	.....2002..	X	1 802 061
	.....1997..	X	726 436
336391	Motor vehicle air-conditioning manufacturing		
00900001	Total materials		
	.....2002..	X	3 410 385
	.....1997..	X	2 628 866
001900A6	Refrigeration compressors, compressor units, condensing units, and other heat transfer equipment		
	.....2002..	X	568 475
	.....1997..	X	465 873
33531209	Fractional horsepower electric timing motors, synchronous and subsynchronous (less than 1 hp)		
	.....2002..	X	2 880
	.....1997..	X	D
33531223	Fractional horsepower electric motors (less than 1 hp), excluding timing motors		
	.....2002..	X	D
	.....1997..	X	D
33531221	Integral horsepower electric motors and generators (1 hp or more)		
	.....2002..	X	D
	.....1997..	X	10 246
33341200	Fans and blowers		
	.....2002..	X	21 629
	.....1997..	X	8 182
001900B1	Electrical transmission, distribution, and control equipment		
	.....2002..	X	D
	.....1997..	X	37 078
33593101	Current-carrying wiring devices		
	.....2002..	X	88 351
	.....1997..	X	58 811
33451200	Automatic temperature controls (thermostats, regulators, etc.)		
	.....2002..	X	D
	.....1997..	X	170 392
33299101	Ball and roller bearings (mounted or unmounted)		
	.....2002..	X	85 584
	.....1997..	X	47 646
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products		
	.....2002..	X	144 166
	.....1997..	X	86 492
332000AC	Metal stampings		
	.....2002..	X	D
	.....1997..	X	92 728
33251005	Metal hardware (including hinges, handles, locks, casters, etc.)		
	.....2002..	X	D
	.....1997..	X	D
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)		
2002..	X	17 460

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336391	Motor vehicle air-conditioning manufacturing—Con.		
3320053	All other fabricated metal products (excluding forgings)	1997.. X .2002.. X	9 738 20 818
3321000	Forgings	1997.. X .2002.. X	D 58 735
3315101	Iron and steel castings (rough and semifinished)	1997.. X .2002.. X	N D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	1997.. X .2002.. X	D 181 782
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	13 767 5 557
33120016	Steel sheet and strip (including tinplate)	1997.. X .2002.. X	N D
33120025	Steel wire and wire products	1997.. X .2002.. X	D D
33120035	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	15 874 8 837
33142135	Copper and copper-base alloy pipe and tube (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	7 001 5 155
33142141	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	D N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	1997.. X .2002.. X	D N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	D D
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	1997.. X .2002.. X	3 680 N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	1997.. X .2002.. X	18 208 10 182
32192003	Wooden containers, complete (including combination wood and paperboard)	1997.. X .2002.. X	D 723
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	1997.. X .2002.. X	2 549 N
32510027	Refrigerant gases and other synthetic organic chemicals	1997.. X .2002.. X	2 628 D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	1997.. X .2002.. X	D D
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	1997.. X .2002.. X	44 765 D
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	1997.. X .2002.. X	75 051 65 925
32622001	Rubber and plastics hose and belting	1997.. X .2002.. X	110 753 51 978
33999101	Gaskets (all types) and asbestos packing	1997.. X .2002.. X	28 081 D
32799301	Mineral wool insulation (fibrous glass, rock wool, etc.)	1997.. X .2002.. X	D N
00970099	All other materials and components, parts, containers, and supplies	1997.. X .2002.. X	860 697 750 062
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X .2002.. X	356 338 22 726
336399	All other motor vehicle parts manufacturing		
00900001	Total materials	1997.. X .2002.. X	18 417 449 18 295 570
33151001	Iron and steel castings (rough and semifinished)	1997.. X .2002.. X	614 103 410 285
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	1997.. X .2002.. X	353 271 265 903
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	1997.. X .2002.. X	55 978 121 146
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	121 887 362 019
33120016	Steel sheet and strip (including tinplate)	1997.. X .2002.. X	593 402 N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	332 323 493 677
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	44 818 76 331
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	1997.. X .2002.. X	347 321 N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products)	1997.. X .2002.. X	92 757

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336399	All other motor vehicle parts manufacturing—Con.		
33299101	Ball and roller bearings (mounted or unmounted)	1997.. X 2002.. X 1997.. X	N 30 355 N
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002.. X 1997.. X	284 255 N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	111 219 202 362
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	269 070 469 727
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X	57 556
32622001	Rubber and plastics hose and belting	1997.. X 2002.. X 1997.. X	69 524 46 069 84 089
32500023	Ceramic raw materials (including powders, chemicals, and fibers), excluding refractory uses	2002.. X 1997.. X	D 127 186
32700035	Ceramic and ceramic composite parts, components, and accessories	2002.. X 1997.. X	D 255 029
33999103	Gaskets (all types), and packing and sealing devices	2002.. X 1997.. X	67 154 110 120
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	200 731
32552002	Glues and adhesives	1997.. X 2002.. X 1997.. X	N 29 663 N
00190003	Flexible packaging materials	2002.. X 1997.. X	41 874 32 962
32220015	Paper and paperboard containers	2002.. X 1997.. X	178 296 274 878
33632201	Spark plugs for internal combustion engines	2002.. X 1997.. X	D N
33632203	Starting motors for internal combustion engines	2002.. X	D
33632204	Distributors for internal combustion engines	1997.. X 2002.. X 1997.. X	N D N
33632219	All other engine electrical equipment for internal combustion engines	2002.. X 1997.. X 2002.. X 1997.. X	D N D N
33441500	Resistors for electronic circuitry	2002.. X 1997.. X	1 240 N
33441400	Capacitors for electronic circuitry	2002.. X 1997.. X	D N
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry	2002.. X	D
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes)	1997.. X 2002.. X 1997.. X	N 99 227 N
00999826	Core parts purchased for use in remanufacturing and rebuilding	2002.. X 1997.. X	1 559 284 442 937
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X 1997.. X	D N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	937 694 294 452
33200019	Other fabricated metal products (excluding fluid power, forgings, automotive stamping and bolts, nuts, screws, rivets, washers, and screw machine products)	2002.. X	1 559 051
33210000	Forgings	1997.. X 2002.. X 1997.. X	866 492 70 798 N
331000A1	Insulated wire and cable (excluding magnet wire)	2002.. X 1997.. X	53 074 N
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X 1997.. X	D N
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	133 776 D
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	2 316
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	1997.. X 2002.. X 1997.. X	D 4 531 D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	103 918 D
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	13 572 D
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002.. X 1997.. X	2 004 N
33637000	Automotive stampings (including body parts, hubcaps, fenders, etc.)	2002.. X	1 598 814

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336399	All other motor vehicle parts manufacturing—Con.		
33593101	Current-carrying wiring devices	1997.. X 2002.. X	996 756 97 577
32500046	Other chemicals and allied products	1997.. X 2002.. X	N 95 743
00970099	All other materials and components, parts, containers, and supplies	1997.. X 2002.. X	N 5 625 106
00971000	Materials, ingredients, containers, and supplies, nsk	1997.. X 2002.. X	8 530 299 2 125 140 3 610 719
336411	Aircraft manufacturing		
00900001	Total materials	2002.. X 1997.. X	32 551 300 34 268 528
33641201	Aircraft engines	2002.. X 1997.. X	6 760 832 D
33641203	Aircraft engine parts (excluding instruments)	2002.. X 1997.. X	708 060 73 075
33641303	Structural fuselage components (excluding instruments)	2002.. X 1997.. X	D D
33641305	Structural empennage (tail) components (excluding instruments)	2002.. X 1997.. X	D D
33641307	Structural wing components (excluding instruments)	2002.. X 1997.. X	D D
33641309	Structural landing gear components	2002.. X 1997.. X	D D
33641311	Other structural components (airframe), including engine mounts (excluding instruments)	2002.. X 1997.. X	D 794 688
33641301	Aircraft propellers and parts	2002.. X 1997.. X	8 880 37 804
33636005	Aircraft seats	2002.. X 1997.. X	79 048 12 904
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.)	2002.. X 1997.. X	601 508 D
33451103	Navigational systems and equipment (NAVAIDS)	2002.. X 1997.. X	251 337 138 054
001900D5	Search, detection, tracking, and electronic communication systems and equipment (RADAR, SONAR, and optical)	2002.. X 1997.. X	D D
33400025	Flight, navigational, airframe, and engine indicators, instruments, and clusters (including sensors, displays, etc.)	2002.. X 1997.. X	666 038 D
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X 1997.. X	936 433 119 075
00190070	Resin matrix composites	2002.. X 1997.. X	100 803 34 070
00190071	Other matrix composites (including ceramic, carbon, metal, etc.)	2002.. X 1997.. X	59 604 145 086
33291209	Complete mechanical, hydraulic and pneumatic subassemblies	2002.. X 1997.. X	D D
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X 1997.. X	D D
33291201	Fluid power valves (excluding complete assemblies)	2002.. X 1997.. X	99 373 D
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X 1997.. X	89 371 D
33399503	Fluid power cylinders and rotary actuators (excluding complete assemblies)	2002.. X 1997.. X	D D
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X 1997.. X	D D
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002.. X 1997.. X	D N
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X 1997.. X	59 996 52 924
33351503	Cutting tools for machine tools	2002.. X 1997.. X	D D
33251015	Aircraft metal hardware (excluding forgings)	2002.. X 1997.. X	D D
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	124 220 D
33200009	Other fabricated metal products (excluding fluid power, forgings, aircraft metal hardware and bolts, nuts, screws, washers, rivets, and other screw machine products)	2002.. X 1997.. X	166 150 168 799
33211101	Iron and steel forgings	2002.. X 1997.. X	6 448 8 313
33211203	Aluminum and aluminum-base alloy forgings	2002.. X 1997.. X	15 905 8 469
33211205	Titanium and titanium-base alloy forgings	2002.. X 1997.. X	D D
33210003	Other forgings	2002.. X 1997.. X	D 26 808
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	4 654 D

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336411	Aircraft manufacturing—Con.		
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	30 203
	.....1997..	X	4 219
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	13 846
33120016	Steel sheet and strip (including tinplate) .....2002..	X	D
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	59 886
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
33149100	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33100065	Other nonferrous shapes and forms (excluding aluminum and aluminum-base alloy, copper and copper-base alloy, and titanium and titanium-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	D
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	33 968
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	2 861 920
	.....1997..	X	5 606 470
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	8 881 117
	.....1997..	X	7 342 173
336412	Aircraft engine and engine parts manufacturing		
00900001	Total materials .....2002..	X	9 676 180
	.....1997..	X	9 259 160
33641201	Aircraft engines .....2002..	X	D
	.....1997..	X	249 248
33641203	Aircraft engine parts (excluding instruments) .....2002..	X	5 189 708
	.....1997..	X	5 174 339
33641303	Structural fuselage components (excluding instruments) .....2002..	X	D
	.....1997..	X	N
33641307	Structural wing components (excluding instruments) .....2002..	X	D
	.....1997..	X	N
33641309	Structural landing gear components .....2002..	X	D
	.....1997..	X	N
33641311	Other structural components (airframe), including engine mounts (excluding instruments) .....2002..	X	D
	.....1997..	X	N
33641301	Aircraft propellers and parts .....2002..	X	520
	.....1997..	X	N
33400025	Flight, navigational, airframe, and engine indicators, instruments, and clusters (including sensors, displays, etc.) .....2002..	X	D
	.....1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components .....2002..	X	84 121
	.....1997..	X	N
00190070	Resin matrix composites .....2002..	X	9 974
	.....1997..	X	N
00190071	Other matrix composites (including ceramic, carbon, metal, etc.) .....2002..	X	23 714
	.....1997..	X	16 014
33291209	Complete mechanical, hydraulic and pneumatic subassemblies .....2002..	X	D
	.....1997..	X	20 606
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	N
33291201	Fluid power valves (excluding complete assemblies) .....2002..	X	D
	.....1997..	X	N
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	12 174
	.....1997..	X	N
33399503	Fluid power cylinders and rotary actuators (excluding complete assemblies) .....2002..	X	1 488
	.....1997..	X	N
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	2 022
	.....1997..	X	N
00190087	Other transportation related fluid power products, hydraulic and pneumatic .....2002..	X	D
	.....1997..	X	N
33299101	Ball and roller bearings (mounted or unmounted)2002..	X	38 011
1997..	X	24 151

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336412	Aircraft engine and engine parts manufacturing— Con.		
33351503	Cutting tools for machine tools .....2002..	X	26 510
	.....1997..	X	16 270
33251015	Aircraft metal hardware (excluding forgings) .....2002..	X	D
	.....1997..	X	181 081
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	40 662
	.....1997..	X	29 104
33200009	Other fabricated metal products (excluding fluid power, forgings, aircraft metal hardware and bolts, nuts, screws, washers, rivets, and other screw machine products) .....2002..	X	35 440
	.....1997..	X	51 984
33211101	Iron and steel forgings .....2002..	X	80 359
	.....1997..	X	185 520
33211203	Aluminum and aluminum-base alloy forgings .....2002..	X	40 202
	.....1997..	X	19 800
33211205	Titanium and titanium-base alloy forgings .....2002..	X	158 535
	.....1997..	X	114 733
33210003	Other forgings .....2002..	X	67 635
	.....1997..	X	58 714
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	268 201
	.....1997..	X	223 091
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	23 362
	.....1997..	X	28 193
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	83 853
	.....1997..	X	77 723
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	37 224
	.....1997..	X	110 184
33120016	Steel sheet and strip (including tinplate) .....2002..	X	42 946
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	13 136
	.....1997..	X	10 883
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	5 022
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	11 524
	.....1997..	X	1 391
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 994
	.....1997..	X	230
33149100	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	30 692
	.....1997..	X	N
33100065	Other nonferrous shapes and forms (excluding aluminum and aluminum-base alloy, copper and copper-base alloy, and titanium and titanium-base alloy castings, forgings, and fabricated metal products) .....2002..	X	28 288
	.....1997..	X	32 263
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	1 144
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	232 119
	.....1997..	X	609 624
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 700 541
	.....1997..	X	2 024 014
336413	Other aircraft parts and auxiliary equipment manufacturing		
00900001	Total materials .....2002..	X	6 179 124
	.....1997..	X	6 037 001
33641201	Aircraft engines .....2002..	X	D
	.....1997..	X	3 663
33641203	Aircraft engine parts (excluding instruments) .....2002..	X	D
	.....1997..	X	48 951
33641303	Structural fuselage components (excluding instruments) .....2002..	X	12 177
	.....1997..	X	D
33641305	Structural empennage (tail) components (excluding instruments) .....2002..	X	211
	.....1997..	X	38 334
33641307	Structural wing components (excluding instruments) .....2002..	X	2 942
	.....1997..	X	84 242
33641309	Structural landing gear components .....2002..	X	399 769
	.....1997..	X	D
33641311	Other structural components (airframe), including engine mounts (excluding instruments) .....2002..	X	85 215
	.....1997..	X	314 576
33641301	Aircraft propellers and parts .....2002..	X	28 598
	.....1997..	X	D
33636005	Aircraft seats .....2002..	X	1 850
	.....1997..	X	1 546
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.) .....2002..	X	1 168
	.....1997..	X	D
33451103	Navigational systems and equipment (NAVAIDS) .....2002..	X	D
	.....1997..	X	D
001900D5	Search, detection, tracking, and electronic communication systems and equipment (RADAR, SONAR, and optical)2002..	X	D
1997..	X	N

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336413	Other aircraft parts and auxiliary equipment manufacturing—Con.		
33400025	Flight, navigational, airframe, and engine indicators, instruments, and clusters (including sensors, displays, etc.)	2002.. X	3 117
		1997.. X	8 500
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X	86 655
		1997.. X	97 274
00190070	Resin matrix composites	2002.. X	35 052
		1997.. X	122 203
00190071	Other matrix composites (including ceramic, carbon, metal, etc.)	2002.. X	218 157
		1997.. X	209 836
33291209	Complete mechanical, hydraulic and pneumatic subassemblies	2002.. X	37 088
		1997.. X	201 883
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	17 424
		1997.. X	4 245
33291201	Fluid power valves (excluding complete assemblies)	2002.. X	19 550
		1997.. X	9 546
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	D
		1997.. X	2 268
33399503	Fluid power cylinders and rotary actuators (excluding complete assemblies)	2002.. X	D
		1997.. X	3 834
33399901	Fluid power filters (hydraulic and pneumatic)	2002.. X	D
		1997.. X	580
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002.. X	14 742
		1997.. X	N
33299101	Ball and roller bearings (mounted or unmounted)	2002.. X	28 886
		1997.. X	27 070
33351503	Cutting tools for machine tools	2002.. X	14 635
		1997.. X	59 073
33251015	Aircraft metal hardware (excluding forgings)	2002.. X	183 886
		1997.. X	1 267 701
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	97 016
		1997.. X	221 505
33200009	Other fabricated metal products (excluding fluid power, forgings, aircraft metal hardware and bolts, nuts, screws, washers, rivets, and other screw machine products)	2002.. X	252 366
		1997.. X	213 584
33211101	Iron and steel forgings	2002.. X	13 173
		1997.. X	63 780
33211203	Aluminum and aluminum-base alloy forgings	2002.. X	46 650
		1997.. X	103 646
33211205	Titanium and titanium-base alloy forgings	2002.. X	D
		1997.. X	45 528
33210003	Other forgings	2002.. X	33 220
		1997.. X	20 485
33151001	Iron and steel castings (rough and semifinished)	2002.. X	15 739
		1997.. X	41 540
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X	33 841
		1997.. X	66 701
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy)	2002.. X	6 902
		1997.. X	14 769
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	15 203
		1997.. X	56 607
33120016	Steel sheet and strip (including tinplate)	2002.. X	14 246
		1997.. X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	8 889
		1997.. X	8 068
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	272 661
		1997.. X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	99 130
		1997.. X	80 843
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	D
		1997.. X	1 009
33149100	Titanium and titanium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	65 687
		1997.. X	N
33100065	Other nonferrous shapes and forms (excluding aluminum and aluminum-base alloy, copper and copper-base alloy, and titanium and titanium-base alloy castings, forgings, and fabricated metal products)	2002.. X	20 976
		1997.. X	8 011
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	31 781
		1997.. X	N
00970099	All other materials and components, parts, containers, and supplies	2002.. X	1 331 317
		1997.. X	1 685 747
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	2 409 304
		1997.. X	715 759

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336414	Guided missile and space vehicle manufacturing		
00900001	Total materials .....2002..	X	2 475 866
	.....1997..	X	3 902 367
33641503	Guided missile and space vehicle engines and parts .....2002..	X	D
	.....1997..	X	400 143
33641900	Guided missile and space vehicle airframe parts .....2002..	X	D
	.....1997..	X	D
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.) .....2002..	X	D
	.....1997..	X	D
33451103	Navigational systems and equipment (NAVAIDS) .....2002..	X	D
	.....1997..	X	D
33400025	Flight, navigational, airframe, and engine indicators, instruments, and clusters (including sensors, displays, etc.) .....2002..	X	D
	.....1997..	X	D
00190070	Resin matrix composites .....2002..	X	D
	.....1997..	X	N
00190071	Other matrix composites (including ceramic, carbon, metal, etc.) .....2002..	X	D
	.....1997..	X	D
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	D
	.....1997..	X	D
33211101	Iron and steel forgings .....2002..	X	D
	.....1997..	X	D
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 167 416
	.....1997..	X	1 287 341
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	779 708
	.....1997..	X	1 724 970
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing		
00900001	Total materials .....2002..	X	646 387
	.....1997..	X	971 868
33641503	Guided missile and space vehicle engines and parts .....2002..	X	D
	.....1997..	X	153 060
33641501	Guided missile and space vehicle propulsion units and parts .....2002..	X	160 335
	.....1997..	X	494 364
33641900	Guided missile and space vehicle airframe parts .....2002..	X	D
	.....1997..	X	N
33422003	Radio communication systems and equipment, including airborne transmitters and receivers (microwave, UHF, VHF, etc.) .....2002..	X	D
	.....1997..	X	N
33451103	Navigational systems and equipment (NAVAIDS) .....2002..	X	D
	.....1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components .....2002..	X	808
	.....1997..	X	D
00190070	Resin matrix composites .....2002..	X	D
	.....1997..	X	D
00190071	Other matrix composites (including ceramic, carbon, metal, etc.) .....2002..	X	D
	.....1997..	X	D
33291209	Complete mechanical, hydraulic and pneumatic subassemblies .....2002..	X	D
	.....1997..	X	5 703
00190090	Fluid power products .....2002..	X	D
	.....1997..	X	4 195
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	2 283
	.....1997..	X	D
33200063	Other fabricated metal products (excluding fluid power products and forgings) .....2002..	X	D
	.....1997..	X	17 085
33211101	Iron and steel forgings .....2002..	X	D
	.....1997..	X	1 573
33211201	Nonferrous forgings .....2002..	X	D
	.....1997..	X	6 088
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	D
	.....1997..	X	D
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	D
	.....1997..	X	4 540
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	3 471
32500045	Chemicals, all types (including propellants) .....2002..	X	31 163
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	256 547
	.....1997..	X	215 641
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	22 563
	.....1997..	X	18 133

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing		
00900001	Total materials	X	240 305
	.....2002..	X	287 814
	.....1997..	X	D
33641900	Guided missile and space vehicle airframe parts	X	D
	.....2002..	X	D
	.....1997..	X	D
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	D
	.....2002..	X	D
	.....1997..	X	D
00190070	Resin matrix composites	X	D
	.....2002..	X	D
	.....1997..	X	D
00190071	Other matrix composites (including ceramic, carbon, metal, etc.)	X	D
	.....2002..	X	D
	.....1997..	X	D
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	341
	.....2002..	X	1 164
	.....1997..	X	D
33211101	Iron and steel forgings	X	1 579
	.....2002..	X	D
	.....1997..	X	D
33211201	Nonferrous forgings	X	D
	.....2002..	X	D
	.....1997..	X	D
33151001	Iron and steel castings (rough and semifinished)	X	D
	.....2002..	X	D
	.....1997..	X	D
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X	D
	.....2002..	X	D
	.....1997..	X	D
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	D
32500045	Chemicals, all types (including propellants)	X	112
	.....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies	X	90 088
	.....2002..	X	111 710
	.....1997..	X	95 166
00971000	Materials, ingredients, containers, and supplies, nsk	X	34 194
	.....2002..	X	
	.....1997..	X	
336510	Railroad rolling stock manufacturing		
00900001	Total materials	X	3 533 965
	.....2002..	X	4 823 071
	.....1997..	X	
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	17 546
	.....2002..	X	67 945
	.....1997..	X	67 763
00190090	Fluid power products	X	89 618
	.....2002..	X	56 614
	.....1997..	X	N
33210000	Forgings	X	80 486
	.....2002..	X	496 475
	.....1997..	X	
33151001	Iron and steel castings (rough and semifinished)	X	285 974
	.....2002..	X	357 545
	.....1997..	X	
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	55 859
	.....2002..	X	385 851
	.....1997..	X	D
33120016	Steel sheet and strip (including tinplate)	X	N
	.....2002..	X	D
	.....1997..	X	102 899
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	X	
	.....2002..	X	
	.....1997..	X	
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	X	24 609
	.....2002..	X	112 914
	.....1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 419
	.....2002..	X	96 777
	.....1997..	X	
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	17 864
	.....2002..	X	22 405
	.....1997..	X	53 424
33299103	Roller bearings (mounted or unmounted)	X	107 369
	.....2002..	X	8 175
	.....1997..	X	62 459
33361301	Plain bearings and bushings	X	
	.....2002..	X	25 733
	.....1997..	X	52 441
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X	D
	.....2002..	X	386 169
	.....1997..	X	
33531303	Railway electrical control equipment	X	
	.....2002..	X	
	.....1997..	X	
33651000	Brake equipment, truck assemblies, hooks and other coupling devices, buffers, and parts	X	180 657
	.....2002..	X	573 466
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	1 632 762
	.....2002..	X	1 443 705
	.....1997..	X	570 973
00971000	Materials, ingredients, containers, and supplies, nsk	X	465 033
	.....2002..	X	
	.....1997..	X	
336611	Ship building and repairing		
00900001	Total materials	X	3 897 987
	.....2002..	X	3 805 933
	.....1997..	X	73 563
33361811	Diesel and semidiesel engines	X	128 993
	.....2002..	X	D
	.....1997..	X	117 033
33361105	Steam engines and turbines	X	
	.....2002..	X	
	.....1997..	X	
33531221	Integral horsepower electric motors and generators (1 hp or more)	X	13 297
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336611	Ship building and repairing—Con.		
		1997..	X
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	2002..	X
		1997..	X
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002..	X
		1997..	X
33531415	Industrial controls	2002..	X
		1997..	X
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002..	X
		1997..	X
33291207	Fluid power valves (hydraulic and pneumatic)	2002..	X
		1997..	X
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002..	X
		1997..	X
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002..	X
		1997..	X
33399901	Fluid power filters (hydraulic and pneumatic)	2002..	X
		1997..	X
00190087	Other transportation related fluid power products, hydraulic and pneumatic	2002..	X
		1997..	X
332000A7	Metal boilers, condensers, and parts (excluding forgings)	2002..	X
		1997..	X
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X
		1997..	X
33200063	Other fabricated metal products (excluding fluid power products and forgings)	2002..	X
		1997..	X
33210000	Forgings	2002..	X
		1997..	X
33231203	Aluminum and aluminum-base alloy forgings	2002..	X
		1997..	X
33100035	Castings, rough and semifinished	2002..	X
		1997..	X
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002..	X
		1997..	X
33120016	Steel sheet and strip (including tinplate)	2002..	X
		1997..	X
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002..	X
		1997..	X
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002..	X
		1997..	X
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002..	X
		1997..	X
33100050	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, and fabricated metal products)	2002..	X
		1997..	X
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002..	X
		1997..	X
33300011	Construction machinery and parts (including shipwinches, cranes, derricks, and capstans)	2002..	X
		1997..	X
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002..	X
		1997..	X
32100020	Lumber, dressed	2002..	X
		1997..	X
00970099	All other materials and components, parts, containers, and supplies	2002..	X
		1997..	X
00971000	Materials, ingredients, containers, and supplies, nsk	2002..	X
		1997..	X
336612	Boat building		
00900001	Total materials	2002..	X
		1997..	X
33361811	Diesel and semidiesel engines	2002..	X
		1997..	X
33361807	Gasoline and other internal combustion engines	2002..	X
		1997..	X
33531221	Integral horsepower electric motors and generators (1 hp or more)	2002..	X
		1997..	X
00190088	Boat propellers	2002..	X
		1997..	X
33251013	Marine metal hardware (including shackles, rope shackles, rope sockets, tackle blocks), excluding forgings	2002..	X
		1997..	X
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002..	X
		1997..	X
33200061	Other fabricated metal products (excluding forgings)	2002..	X
		1997..	X
33210000	Forgings	2002..	X

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336612	Boat building—Con.		
33100035	Castings, rough and semifinished.....	1997.. X 2002.. X 1997.. X	N 14 331 6 989
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	12 242 10 327
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X 1997.. X	79 368 N
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	2002.. X 1997.. X	41 770 N
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products)	2002.. X 1997.. X	16 093 37 361
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	6 821 1 712
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	144 244 129 970
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	52 826 68 450
32721204	Glass fiber (textile-type, bonded mat type, etc.)	2002.. X 1997.. X	119 476 N
32100020	Lumber, dressed	2002.. X 1997.. X	22 726 N
32121003	Plywood.....	2002.. X 1997.. X	56 181 62 126
31411003	Carpeting.....	2002.. X 1997.. X	30 319 29 020
31491200	Canvas products	2002.. X 1997.. X	58 261 29 479
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X 1997.. X	34 345 N
33451101	Marine nautical and navigation equipment operating by radio signal	2002.. X 1997.. X	33 356 45 965
33391105	Biige pumps	2002.. X 1997.. X	11 617 11 281
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	732 305 1 009 389
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	1 672 134 525 399
336991	Motorcycle, bicycle, and parts manufacturing		
00900001	Total materials	2002.. X 1997.. X	2 254 784 1 506 900
33699101	Bicycle frames, forks, and parts	2002.. X 1997.. X	81 057 92 282
33699103	Bicycle wheel rims and spokes	2002.. X 1997.. X	D 33 678
33699109	Bicycle seats (saddles)	2002.. X 1997.. X	D 15 672
32621003	Pneumatic tires and inner tubes	2002.. X 1997.. X	D 49 593
33699115	Other bicycle parts	2002.. X 1997.. X	261 876 143 963
33200057	Fabricated metal products (excluding forgings)	2002.. X 1997.. X	303 051 N
33210000	Forgings	2002.. X 1997.. X	D N
33100035	Castings, rough and semifinished.....	2002.. X 1997.. X	D D
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	D D
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	804 592 379 156
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	292 278 237 200
336992	Military armored vehicle, tank, and tank component manufacturing		
00900001	Total materials	2002.. X 1997.. X	654 834 437 355
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	44 234 15 426
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X 1997.. X	115 705 165 166
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	7 078 3 756
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X 1997.. X	1 819 D

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
336992	Military armored vehicle, tank, and tank component manufacturing—Con.		
33211101	Iron and steel forgings 2002..	X	D
	1997..	X	D
33211203	Aluminum and aluminum-base alloy forgings 2002..	X	D
	1997..	X	D
33211207	Other nonferrous forgings 2002..	X	D
	1997..	X	–
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	43 226
	1997..	X	D
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	D
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. 2002..	X	D
	1997..	X	N
32610011	Fabricated plastics products (excluding gaskets) 2002..	X	D
	1997..	X	N
00190055	Electronic, hydraulic, and mechanical subassemblies 2002..	X	D
	1997..	X	N
32100019	Rough and dressed lumber 2002..	X	D
	1997..	X	N
32500065	Other chemicals and allied products 2002..	X	D
	1997..	X	N
33351501	Machine tool accessories, including cutting tools 2002..	X	126
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	89
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	62 950
	1997..	X	176 014
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	64 376
	1997..	X	34 795
336999	All other transportation equipment manufacturing		
00900001	Total materials 2002..	X	4 057 235
	1997..	X	2 623 534
33600003	Other metal vehicular parts (axles, wheels, brakes, undercarriages, etc.) 2002..	X	272 125
	1997..	X	199 528
33361801	Gasoline internal combustion engines 2002..	X	660 543
	1997..	X	592 957
32621003	Pneumatic tires and inner tubes 2002..	X	52 783
	1997..	X	47 970
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 2002..	X	264 740
	1997..	X	207 712
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product 2002..	X	27 835
	1997..	X	N
33200057	Fabricated metal products (excluding forgings) 2002..	X	285 936
	1997..	X	N
33210000	Forgings 2002..	X	48 599
	1997..	X	N
33100035	Castings, rough and semifinished 2002..	X	73 575
	1997..	X	56 456
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) 2002..	X	57 436
	1997..	X	51 925
33120016	Steel sheet and strip (including tinplate) 2002..	X	D
	1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) 2002..	X	D
	1997..	X	86 293
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling) 2002..	X	24 636
	1997..	X	30 948
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	28 008
	1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	7 126
	1997..	X	6 773
00970099	All other materials and components, parts, containers, and supplies 2002..	X	1 704 214
	1997..	X	1 080 582
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	433 073
	1997..	X	262 390
337110	Wood kitchen cabinet and countertop manufacturing		
00900001	Total materials 2002..	X	5 263 589
	1997..	X	3 536 671
32191203	Hardwood cut stock and dimension (excluding furniture frames) 2002..	X	223 324
	1997..	X	308 585
32121104	Hardwood veneer 2002..	X	84 844
	1997..	X	N
32121100	Hardwood plywood 2002..	X	231 696
	1997..	X	N

See footnotes at end of table.

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NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337110	Wood kitchen cabinet and countertop manufacturing —Con.		
32121200	Softwood plywood	X	16 759
	.....2002..	X	N
	.....1997..	X	N
32121902	Particleboard (reconstituted wood)	X	297 783
	.....2002..	X	N
	.....1997..	X	N
32121909	Hardboard	X	32 439
	.....2002..	X	32 074
	.....1997..	X	90 825
32121906	Medium density fiberboard (MDF)	X	N
	.....2002..	X	110 445
	.....1997..	X	82 734
32221001	Paperboard containers, boxes, and corrugated paperboard	X	760 179
	.....2002..	X	386 383
	.....1997..	X	29 089
32100025	Hardwood lumber, rough and dressed	X	23 635
	.....2002..	X	34 011
	.....1997..	X	38 075
32100031	Softwood lumber, rough and dressed	X	116 005
	.....2002..	X	N
	.....1997..	X	N
32552001	Adhesives and sealants	X	146 934
	.....2002..	X	N
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	8 031
	.....2002..	X	N
	.....1997..	X	N
32613001	Plastics laminated sheets	X	235 234
	.....2002..	X	204 408
	.....1997..	X	238 960
32619909	Plastics furniture parts and components	X	N
	.....2002..	X	1 038 348
	.....1997..	X	1 187 194
32619909	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	1 568 683
	.....2002..	X	1 273 583
	.....1997..	X	N
33721500	Wood furniture frames	X	N
	.....2002..	X	N
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	5 037 406
	.....2002..	X	4 100 529
	.....1997..	X	136 849
00971000	Materials, ingredients, containers, and supplies, nsk	X	142 492
	.....2002..	X	57 119
	.....1997..	X	54 175
337121	Upholstered household furniture manufacturing		
00900001	Total materials	X	90 410
	.....2002..	X	96 311
	.....1997..	X	53 154
32100025	Hardwood lumber, rough and dressed	X	N
	.....2002..	X	125 559
	.....1997..	X	N
32100031	Softwood lumber, rough and dressed	X	6 273
	.....2002..	X	N
	.....1997..	X	N
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	5 832
	.....2002..	X	N
	.....1997..	X	N
32121200	Softwood plywood	X	2 205
	.....2002..	X	N
	.....1997..	X	N
32121100	Hardwood plywood	X	3 189
	.....2002..	X	N
	.....1997..	X	N
32121104	Hardwood veneer	X	303 588
	.....2002..	X	381 538
	.....1997..	X	309 411
32121902	Particleboard (reconstituted wood)	X	355 785
	.....2002..	X	807 129
	.....1997..	X	501 040
32121906	Medium density fiberboard (MDF)	X	254 517
	.....2002..	X	202 468
	.....1997..	X	183 574
32121909	Hardboard	X	N
	.....2002..	X	108 429
	.....1997..	X	108 283
33721500	Wood furniture frames	X	126 338
	.....2002..	X	142 651
	.....1997..	X	70 418
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	73 128
	.....2002..	X	42 920
	.....1997..	X	49 215
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking	X	390 699
	.....2002..	X	444 590
	.....1997..	X	N
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam)	X	7 916
	.....2002..	X	N
	.....1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)	X	7 380
	.....2002..	X	N
	.....1997..	X	N
33261200	Springs, innerspring units, and box spring constructions	X	719
	.....2002..	X	N
	.....1997..	X	N
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	2 278
	.....2002..	X	N
	.....1997..	X	N
33251007	Constructions (sleepers mechanisms) for dual purpose sleep furniture	X	N
	.....2002..	X	N
	.....1997..	X	N
32600001	Foam cores for mattresses, including latex (excluding topper pads)	X	N
	.....2002..	X	N
	.....1997..	X	N
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	N
	.....2002..	X	N
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	N
	.....2002..	X	N
	.....1997..	X	N
32552001	Adhesives and sealants	X	N
	.....2002..	X	N
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	N
	.....2002..	X	N
	.....1997..	X	N
32613001	Plastics laminated sheets	X	N
	.....2002..	X	N
	.....1997..	X	N
332000AC	Metal stampings	X	N
	.....2002..	X	N
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337121	Upholstered household furniture manufacturing— Con.		
33200007	Other fabricated metal products (including forgings)	X	26 867
	2002..	X	N
	1997..	X	N
33100035	Castings, rough and semifinished	X	328
	2002..	X	N
	1997..	X	N
33120016	Steel sheet and strip (including tinplate)	X	D
	2002..	X	N
	1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	D
	2002..	X	N
	1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	N
32619909	Plastics furniture parts and components	X	25 893
	2002..	X	N
	1997..	X	N
32721101	Flat glass (plate, float, and sheet)	X	871
	2002..	X	N
	1997..	X	N
32721503	Mirrors, framed and unframed	X	224
	2002..	X	N
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	96 310
	2002..	X	N
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	845 189
	2002..	X	926 766
	1997..	X	803 297
00971000	Materials, ingredients, containers, and supplies, nsk	X	622 087
	2002..	X	
	1997..	X	
337122	Nonupholstered wood household furniture manufacturing		
00900001	Total materials	X	4 015 878
	2002..	X	4 662 376
	1997..	X	523 850
32100025	Hardwood lumber, rough and dressed	X	696 621
	2002..	X	157 504
	1997..	X	175 670
32100031	Softwood lumber, rough and dressed	X	
	2002..	X	228 754
	1997..	X	286 361
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	56 456
	2002..	X	N
	1997..	X	N
32121200	Softwood plywood	X	117 529
	2002..	X	N
	1997..	X	N
32121100	Hardwood plywood	X	123 948
	2002..	X	N
	1997..	X	N
32121104	Hardwood veneer	X	266 386
	2002..	X	N
	1997..	X	N
32121902	Particleboard (reconstituted wood)	X	100 206
	2002..	X	N
	1997..	X	N
32121906	Medium density fiberboard (MDF)	X	88 168
	2002..	X	37 568
	1997..	X	
32121909	Hardboard	X	
	2002..	X	86 477
	1997..	X	239 502
33721500	Wood furniture frames	X	6 919
	2002..	X	N
	1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	24 312
	2002..	X	N
	1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking	X	8 606
	2002..	X	N
	1997..	X	N
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam)	X	3 242
	2002..	X	N
	1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)	X	9 519
	2002..	X	N
	1997..	X	N
33261200	Springs, innerspring units, and box spring constructions	X	267 209
	2002..	X	332 687
	1997..	X	
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	703
	2002..	X	N
	1997..	X	N
33251007	Constructions (sleeper mechanisms) for dual purpose sleep furniture	X	7 197
	2002..	X	N
	1997..	X	N
32600001	Foam cores for mattresses, including latex (excluding topper pads)	X	9 403
	2002..	X	N
	1997..	X	N
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	
	2002..	X	
	1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	93 574
	2002..	X	N
	1997..	X	N
32552001	Adhesives and sealants	X	76 908
	2002..	X	30 345
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	3 794
	2002..	X	12 253
	1997..	X	69 719
32613001	Plastics laminated sheets	X	N
	2002..	X	N
	1997..	X	N
332000AC	Metal stampings	X	3 086
	2002..	X	N
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337122	Nonupholstered wood household furniture manufacturing—Con.		
33200007	Other fabricated metal products (including forgings)	X	12 220
	1997..	X	N
33100035	Castings, rough and semifinished	X	2 068
	1997..	X	N
33120016	Steel sheet and strip (including tinplate)	X	392
	1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 645
	1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	688
	1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	3 413
	1997..	X	N
32619909	Plastics furniture parts and components	X	23 303
	1997..	X	N
32721101	Flat glass (plate, float, and sheet)	X	33 840
	1997..	X	61 260
32721503	Mirrors, framed and unframed	X	68 460
	1997..	X	58 076
32221001	Paperboard containers, boxes, and corrugated paperboard	X	228 344
	1997..	X	244 648
00970099	All other materials and components, parts, containers, and supplies	X	366 591
	1997..	X	1 708 471
00971000	Materials, ingredients, containers, and supplies, nsk	X	941 445
	1997..	X	778 914
337124	Metal household furniture manufacturing		
00900001	Total materials	X	820 176
	1997..	X	1 034 242
32100031	Softwood lumber, rough and dressed	X	2 401
	1997..	X	N
32121200	Softwood plywood	X	265
	1997..	X	N
32121902	Particleboard (reconstituted wood)	X	910
	1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	D
	1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking	X	21 254
	1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)	X	13 704
	1997..	X	N
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	17 546
	1997..	X	38 539
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	2 829
	1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	9 415
	1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	D
	1997..	X	N
332000AC	Metal stampings	X	5 648
	1997..	X	7 611
33200007	Other fabricated metal products (including forgings)	X	94 779
	1997..	X	N
33100035	Castings, rough and semifinished	X	6 165
	1997..	X	N
33120016	Steel sheet and strip (including tinplate)	X	27 609
	1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	35 958
	1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	26 652
	1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	1997..	X	47 952
32619909	Plastics furniture parts and components	X	10 915
	1997..	X	N
32721101	Flat glass (plate, float, and sheet)	X	4 761
	1997..	X	14 561
32221001	Paperboard containers, boxes, and corrugated paperboard	X	20 441
	1997..	X	61 615
00970099	All other materials and components, parts, containers, and supplies	X	133 364
	1997..	X	678 514
00971000	Materials, ingredients, containers, and supplies, nsk	X	288 774
	1997..	X	185 450

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337125	Household furniture (except wood and metal) manufacturing		
00900001	Total materials	X	350 939
	.....2002..	X	243 256
	.....1997..	X	14 561
33721500	Wood furniture frames	X	8 456
	.....2002..	X	3 602
	.....1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	5 821
	.....2002..	X	N
	.....1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking.....	X	8 084
	.....2002..	X	N
	.....1997..	X	N
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam)	X	2 475
	.....2002..	X	4 929
	.....1997..	X	N
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.).....	X	D
	.....2002..	X	N
	.....1997..	X	N
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	3 087
	.....2002..	X	N
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	93 116
	.....2002..	X	112 443
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	N
	.....2002..	X	D
	.....1997..	X	N
32613001	Plastics laminated sheets	X	D
	.....2002..	X	N
	.....1997..	X	N
32619909	Plastics furniture parts and components	X	D
	.....2002..	X	N
	.....1997..	X	N
32721101	Flat glass (plate, float, and sheet)	X	1 326
	.....2002..	X	795
	.....1997..	X	17 486
32221001	Paperboard containers, boxes, and corrugated paperboard	X	9 887
	.....2002..	X	
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	104 493
	.....2002..	X	57 538
	.....1997..	X	73 632
00971000	Materials, ingredients, containers, and supplies, nsk	X	49 208
	.....2002..	X	
	.....1997..	X	
337127	Institutional furniture manufacturing		
00900001	Total materials	X	1 578 035
	.....2002..	X	1 625 071
	.....1997..	X	4 415
332000AC	Metal stampings	X	28 788
	.....2002..	X	20 713
	.....1997..	X	N
33200007	Other fabricated metal products (including forgings)	X	4 545
	.....2002..	X	15 101
	.....1997..	X	55 812
33100035	Castings, rough and semifinished	X	N
	.....2002..	X	
	.....1997..	X	
33120016	Steel sheet and strip (including tinplate)	X	37 750
	.....2002..	X	N
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	13 330
	.....2002..	X	N
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	20 840
	.....2002..	X	40 699
	.....1997..	X	47 511
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	126 520
	.....2002..	X	6 085
	.....1997..	X	7 788
32100025	Hardwood lumber, rough and dressed	X	29 947
	.....2002..	X	N
	.....1997..	X	N
32100031	Softwood lumber, rough and dressed	X	12 126
	.....2002..	X	N
	.....1997..	X	N
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	23 995
	.....2002..	X	N
	.....1997..	X	N
32121200	Softwood plywood	X	13 449
	.....2002..	X	N
	.....1997..	X	N
32121100	Hardwood plywood	X	24 994
	.....2002..	X	N
	.....1997..	X	N
32121104	Hardwood veneer	X	7 880
	.....2002..	X	N
	.....1997..	X	N
32121902	Particleboard (reconstituted wood)	X	19 920
	.....2002..	X	N
	.....1997..	X	N
32121906	Medium density fiberboard (MDF)	X	35 774
	.....2002..	X	53 948
	.....1997..	X	54 794
33721500	Wood furniture frames	X	81 085
	.....2002..	X	6 896
	.....1997..	X	25 035
32613001	Plastics laminated sheets	X	10 589
	.....2002..	X	N
	.....1997..	X	N
32619909	Plastics furniture parts and components	X	7 751
	.....2002..	X	N
	.....1997..	X	N
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	10 474
	.....2002..	X	N
	.....1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)	X	18 773
	.....2002..	X	N
	.....1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	
	.....2002..	X	
	.....1997..	X	
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking.....	X	
	.....2002..	X	
	.....1997..	X	
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337127	Institutional furniture manufacturing—Con.		
32552001	Adhesives and sealants .....2002..	X	6 022
	.....1997..	X	9 951
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.).....2002..	X	44 106
	.....1997..	X	100 911
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	28 209
	.....1997..	X	39 658
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	641 078
	.....1997..	X	735 996
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	370 257
	.....1997..	X	359 591
337129	Wood television, radio, and sewing machine cabinet manufacturing		
00900001	Total materials .....2002..	X	155 654
	.....1997..	X	152 609
32100025	Hardwood lumber, rough and dressed .....2002..	X	6 284
	.....1997..	X	14 465
32191203	Hardwood cut stock and dimension (excluding furniture frames) .....2002..	X	5 711
	.....1997..	X	5 130
32121100	Hardwood plywood .....2002..	X	1 058
	.....1997..	X	N
32121104	Hardwood veneer .....2002..	X	D
	.....1997..	X	N
32121902	Particleboard (reconstituted wood) .....2002..	X	D
	.....1997..	X	N
32121906	Medium density fiberboard (MDF) .....2002..	X	D
	.....1997..	X	N
32121909	Hardboard .....2002..	X	D
	.....1997..	X	650
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.).....2002..	X	11 385
	.....1997..	X	14 025
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	3 870
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	2 575
	.....1997..	X	13 764
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	24 731
	.....1997..	X	76 246
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	40 162
	.....1997..	X	28 329
337211	Wood office furniture manufacturing		
00900001	Total materials .....2002..	X	1 016 051
	.....1997..	X	1 176 821
332000AC	Metal stampings .....2002..	X	8 258
	.....1997..	X	7 982
33200007	Other fabricated metal products (including forgings) .....2002..	X	9 727
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	3 500
	.....1997..	X	2 213
33120016	Steel sheet and strip (including tinplate) .....2002..	X	7 870
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 421
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....2002..	X	2 126
	.....1997..	X	N
32100025	Hardwood lumber, rough and dressed .....2002..	X	55 002
	.....1997..	X	60 621
32100031	Softwood lumber, rough and dressed .....2002..	X	6 155
	.....1997..	X	3 667
32191203	Hardwood cut stock and dimension (excluding furniture frames) .....2002..	X	48 073
	.....1997..	X	N
32121200	Softwood plywood .....2002..	X	2 747
	.....1997..	X	N
32121100	Hardwood plywood .....2002..	X	56 587
	.....1997..	X	N
32121104	Hardwood veneer .....2002..	X	49 476
	.....1997..	X	N
32121902	Particleboard (reconstituted wood) .....2002..	X	63 550
	.....1997..	X	N
32121906	Medium density fiberboard (MDF) .....2002..	X	8 360
	.....1997..	X	N
32121909	Hardboard .....2002..	X	4 262
	.....1997..	X	26 893
33721500	Wood furniture frames .....2002..	X	14 104
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	4 389
	.....1997..	X	N
32613001	Plastics laminated sheets .....2002..	X	61 087
	.....1997..	X	35 527
32619909	Plastics furniture parts and components .....2002..	X	6 538
	.....1997..	X	31 247

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337211	Wood office furniture manufacturing—Con.		
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)		
	.....2002..	X	9 091
	.....1997..	X	14 213
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam)		
	.....2002..	X	5 849
	.....1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)		
	.....2002..	X	10 520
	.....1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)		
	.....2002..	X	10 343
	.....1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking.....		
	.....2002..	X	31 216
	.....1997..	X	N
32721101	Flat glass (plate, float, and sheet)		
	.....2002..	X	7 950
	.....1997..	X	1 196
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product		
	.....2002..	X	60 557
	.....1997..	X	N
32552001	Adhesives and sealants		
	.....2002..	X	4 471
	.....1997..	X	7 374
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)		
	.....2002..	X	125 307
	.....1997..	X	104 847
32221001	Paperboard containers, boxes, and corrugated paperboard		
	.....2002..	X	40 450
	.....1997..	X	51 992
00970099	All other materials and components, parts, containers, and supplies		
	.....2002..	X	77 799
	.....1997..	X	598 103
00971000	Materials, ingredients, containers, and supplies, nsk		
	.....2002..	X	211 266
	.....1997..	X	230 946
337212	Custom architectural woodwork and millwork manufacturing		
00900001	Total materials		
	.....2002..	X	1 243 761
	.....1997..	X	662 713
332000AC	Metal stampings		
	.....2002..	X	1 165
	.....1997..	X	648
33200007	Other fabricated metal products (including forgings)		
	.....2002..	X	37 793
	.....1997..	X	N
33120016	Steel sheet and strip (including tinplate)		
	.....2002..	X	7 378
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)		
	.....2002..	X	13 314
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing		
	.....2002..	X	4 069
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)		
	.....2002..	X	8 188
	.....1997..	X	4 597
32100025	Hardwood lumber, rough and dressed		
	.....2002..	X	89 979
	.....1997..	X	73 012
32100031	Softwood lumber, rough and dressed		
	.....2002..	X	11 128
	.....1997..	X	7 761
32191203	Hardwood cut stock and dimension (excluding furniture frames)		
	.....2002..	X	17 161
	.....1997..	X	N
32121200	Softwood plywood		
	.....2002..	X	11 948
	.....1997..	X	N
32121100	Hardwood plywood		
	.....2002..	X	46 841
	.....1997..	X	N
32121104	Hardwood veneer		
	.....2002..	X	44 263
	.....1997..	X	N
32121902	Particleboard (reconstituted wood)		
	.....2002..	X	66 274
	.....1997..	X	N
32121906	Medium density fiberboard (MDF)		
	.....2002..	X	40 678
	.....1997..	X	N
32121909	Hardboard		
	.....2002..	X	13 158
	.....1997..	X	5 264
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.		
	.....2002..	X	4 704
	.....1997..	X	N
32613001	Plastics laminated sheets		
	.....2002..	X	80 820
	.....1997..	X	35 170
32619909	Plastics furniture parts and components		
	.....2002..	X	13 263
	.....1997..	X	9 125
32721101	Flat glass (plate, float, and sheet)		
	.....2002..	X	9 451
	.....1997..	X	11 965
32721503	Mirrors, framed and unframed		
	.....2002..	X	3 614
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product		
	.....2002..	X	16 646
	.....1997..	X	N
32552001	Adhesives and sealants		
	.....2002..	X	7 209
	.....1997..	X	4 114
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)		
	.....2002..	X	39 075
	.....1997..	X	32 711
32221001	Paperboard containers, boxes, and corrugated paperboard		
	.....2002..	X	9 864
	.....1997..	X	5 712
00970099	All other materials and components, parts, containers, and supplies		
	.....2002..	X	109 929
	.....1997..	X	303 024
00971000	Materials, ingredients, containers, and supplies, nsk		
	.....2002..	X	535 849
	.....1997..	X	169 610

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337214	Office furniture (except wood) manufacturing		
00900001	Total materials	X	2 651 075
	.....2002..	X	3 053 316
	.....1997..	X	98 994
332000AC	Metal stampings	X	136 023
	.....2002..	X	107 927
	.....1997..	X	N
33200007	Other fabricated metal products (including forgings)	X	12 302
	.....2002..	X	24 280
	.....1997..	X	340 806
33100035	Castings, rough and semifinished	X	N
33120016	Steel sheet and strip (including tinplate)	X	61 857
	.....2002..	X	N
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	18 820
	.....2002..	X	N
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	43 038
	.....2002..	X	44 872
	.....1997..	X	7 328
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	26 837
	.....2002..	X	D
	.....1997..	X	1 789
32100025	Hardwood lumber, rough and dressed	X	N
32100031	Softwood lumber, rough and dressed	X	17 842
	.....2002..	X	N
	.....1997..	X	N
32191203	Hardwood cut stock and dimension (excluding furniture frames)	X	12 053
	.....2002..	X	N
	.....1997..	X	N
32121100	Hardwood plywood	X	D
	.....2002..	X	N
	.....1997..	X	N
32121104	Hardwood veneer	X	62 073
	.....2002..	X	N
	.....1997..	X	N
32121902	Particleboard (reconstituted wood)	X	5 324
	.....2002..	X	N
	.....1997..	X	N
32121906	Medium density fiberboard (MDF)	X	D
	.....2002..	X	19 535
	.....1997..	X	D
32121909	Hardboard	X	N
	.....2002..	X	66 915
	.....1997..	X	79 980
33721500	Wood furniture frames	X	268 477
	.....2002..	X	274 528
	.....1997..	X	23 414
32613001	Plastics laminated sheets	X	36 516
	.....2002..	X	N
	.....1997..	X	N
32619909	Plastics furniture parts and components	X	N
	.....2002..	X	19 783
	.....1997..	X	N
32615000	Formed and slab stock for pillows, cushions, seating, etc. (urethane)	X	70 453
	.....2002..	X	N
	.....1997..	X	N
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam)	X	69 490
	.....2002..	X	N
	.....1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated)	X	10 592
	.....2002..	X	19 589
	.....1997..	X	N
31321007	Woven cotton upholstery fabrics (excluding ticking)	X	N
	.....2002..	X	N
	.....1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking	X	220 256
	.....2002..	X	236 081
	.....1997..	X	90 499
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	141 866
	.....2002..	X	412 164
	.....1997..	X	1 656 453
32552001	Adhesives and sealants	X	352 425
	.....2002..	X	354 967
	.....1997..	X	N
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.)	X	N
	.....2002..	X	N
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	220 256
	.....2002..	X	236 081
	.....1997..	X	90 499
00970099	All other materials and components, parts, containers, and supplies	X	141 866
	.....2002..	X	412 164
	.....1997..	X	1 656 453
00971000	Materials, ingredients, containers, and supplies, nsk	X	352 425
	.....2002..	X	354 967
	.....1997..	X	N
337215	Showcase, partition, shelving, and locker manufacturing		
00900001	Total materials	X	3 319 060
	.....2002..	X	2 960 035
	.....1997..	X	28 944
332000AC	Metal stampings	X	66 362
	.....2002..	X	95 833
	.....1997..	X	N
33200007	Other fabricated metal products (including forgings)	X	5 548
	.....2002..	X	5 089
	.....1997..	X	377 128
33100035	Castings, rough and semifinished	X	N
33120016	Steel sheet and strip (including tinplate)	X	209 038
	.....2002..	X	N
	.....1997..	X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	33 725
	.....2002..	X	N
	.....1997..	X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	29 790
	.....2002..	X	36 687
	.....1997..	X	232 039
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	96 011
	.....2002..	X	
	.....1997..	X	
32100025	Hardwood lumber, rough and dressed	X	
	.....2002..	X	
	.....1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337215	Showcase, partition, shelving, and locker manufacturing—Con.		
32100031	Softwood lumber, rough and dressed .....2002..	X	18 333
	.....1997..	X	29 852
32191203	Hardwood cut stock and dimension (excluding furniture frames) .....2002..	X	39 384
	.....1997..	X	N
32121200	Softwood plywood .....2002..	X	14 049
	.....1997..	X	N
32121100	Hardwood plywood .....2002..	X	93 459
	.....1997..	X	N
32121104	Hardwood veneer .....2002..	X	14 702
	.....1997..	X	N
32121902	Particleboard (reconstituted wood) .....2002..	X	60 287
	.....1997..	X	N
32121906	Medium density fiberboard (MDF) .....2002..	X	65 281
	.....1997..	X	N
32121909	Hardboard .....2002..	X	32 327
	.....1997..	X	23 608
33721500	Wood furniture frames .....2002..	X	10 592
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	83 736
	.....1997..	X	N
32613001	Plastics laminated sheets .....2002..	X	69 667
	.....1997..	X	75 517
32619909	Plastics furniture parts and components .....2002..	X	14 822
	.....1997..	X	33 353
31499901	Paddings, battings, and fillings (excluding rubber and plastics foam) .....2002..	X	6 906
	.....1997..	X	N
31332006	Coated and laminated fabrics (including vinyl coated) .....2002..	X	4 940
	.....1997..	X	N
31321011	Other woven upholstery fabrics (rayon, nylon, polyester, etc.), excluding ticking.....2002..	X	8 631
	.....1997..	X	N
32721101	Flat glass (plate, float, and sheet) .....2002..	X	17 407
	.....1997..	X	14 821
32721503	Mirrors, framed and unframed .....2002..	X	6 702
	.....1997..	X	N
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	70 958
	.....1997..	X	N
32552001	Adhesives and sealants .....2002..	X	9 637
	.....1997..	X	10 737
33251001	Furniture and builders' hardware (including cabinet hardware, casters, glides, handles, hinges, locks, etc.).....2002..	X	67 873
	.....1997..	X	73 811
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	76 099
	.....1997..	X	90 811
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	505 765
	.....1997..	X	1 650 519
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 015 458
	.....1997..	X	752 857
337910	Mattress manufacturing		
00900001	Total materials .....2002..	X	2 218 105
	.....1997..	X	1 898 704
00190097	Hardwood dimension and parts (including wood furniture frames) .....2002..	X	72 604
	.....1997..	X	75 787
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	26 238
	.....1997..	X	35 925
33261200	Springs, innerspring units, and box spring constructions .....2002..	X	503 566
	.....1997..	X	471 477
32600001	Foam cores for mattresses, including latex (excluding topper pads) .....2002..	X	66 480
	.....1997..	X	63 718
31320011	Woven upholstery fabrics (cotton, nylon, polyester, rayon, etc.), excluding ticking .....2002..	X	68 680
	.....1997..	X	43 326
31321005	Ticking (mattress) .....2002..	X	260 360
	.....1997..	X	256 731
00190047	Cotton linters and waste .....2002..	X	25 266
	.....1997..	X	20 848
32600059	Foam padding (excluding mattress cores) .....2002..	X	288 505
	.....1997..	X	207 472
00190049	Insulators (all types), excluding cotton felt (purchased premade).....2002..	X	74 572
	.....1997..	X	56 225
00190044	Other cushioning materials (purchased premade) .....2002..	X	28 822
	.....1997..	X	17 204
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	284 009
	.....1997..	X	277 661
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	519 003
	.....1997..	X	372 330

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
337920	Blind and shade manufacturing		
00900001	Total materials	X	1 171 290
	.....2002..	X	
	.....1997..	X	1 100 198
33200005	Fabricated metal products, including forgings	X	39 142
	.....2002..	X	
	.....1997..	X	64 794
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	33 335
	.....2002..	X	
	.....1997..	X	39 264
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	X	66 677
	.....2002..	X	
	.....1997..	X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	81 746
	.....2002..	X	
	.....1997..	X	66 218
31332003	Plastics coated fabrics and shade cloth	X	196 468
	.....2002..	X	
	.....1997..	X	173 461
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	130 451
	.....2002..	X	
	.....1997..	X	101 557
32221001	Paperboard containers, boxes, and corrugated paperboard	X	35 522
	.....2002..	X	
	.....1997..	X	27 944
00970099	All other materials and components, parts, containers, and supplies	X	206 305
	.....2002..	X	
	.....1997..	X	262 316
00971000	Materials, ingredients, containers, and supplies, nsk	X	381 644
	.....2002..	X	
	.....1997..	X	364 644
339111	Laboratory apparatus and furniture manufacturing		
00900001	Total materials ¹	X	1 578 612
	.....2002..	X	
	.....1997..	X	N
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	67 726
	.....2002..	X	
	.....1997..	X	N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	X	59 889
	.....2002..	X	
	.....1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	X	33 152
	.....2002..	X	
	.....1997..	X	N
33593101	Current-carrying wiring devices	X	30 218
	.....2002..	X	
	.....1997..	X	N
33531201	Electric motors and generators	X	64 504
	.....2002..	X	
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	12 759
	.....2002..	X	
	.....1997..	X	N
332000AG	Other fabricated metal products (excluding forgings, sheet metal products, bolts, nuts, screws, rivets, and washers)	X	73 275
	.....2002..	X	
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished)	X	34 488
	.....2002..	X	
	.....1997..	X	N
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	18 847
	.....2002..	X	
	.....1997..	X	N
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	31 602
	.....2002..	X	
	.....1997..	X	N
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	32 068
	.....2002..	X	
	.....1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	66 075
	.....2002..	X	
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	14 424
	.....2002..	X	
	.....1997..	X	N
32610009	Fabricated plastics products	X	58 623
	.....2002..	X	
	.....1997..	X	N
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X	D
	.....2002..	X	
	.....1997..	X	N
33910000	Surgical and orthopedic supplies (including sutures and hypodermic needles for further manufacture or assembly)	X	D
	.....2002..	X	
	.....1997..	X	N
332000A9	Sheet metal products (excluding stampings)	X	86 909
	.....2002..	X	
	.....1997..	X	N
32552001	Adhesives and sealants	X	6 973
	.....2002..	X	
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	X	63 143
	.....2002..	X	
	.....1997..	X	N
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	X	4 320
	.....2002..	X	
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies	X	612 542
	.....2002..	X	
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk	X	142 801
	.....2002..	X	
	.....1997..	X	N
339112	Surgical and medical instrument manufacturing		
00900001	Total materials	X	5 327 532
	.....2002..	X	
	.....1997..	X	4 358 602
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X	9 561
	.....2002..	X	
	.....1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339112	Surgical and medical instrument manufacturing— Con.		
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	2002.. X 1997.. X	53 164 N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X 1997.. X	100 052 265 140
33593101	Current-carrying wiring devices	2002.. X 1997.. X	20 088 N
33531201	Electric motors and generators	2002.. X 1997.. X	18 459 N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	30 909 65 515
332000AG	Other fabricated metal products (excluding forgings, sheet metal products, bolts, nuts, screws, rivets, and washers)	2002.. X 1997.. X	98 313 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	25 097 5 651
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X 1997.. X	14 985 12 012
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	48 111 78 204
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	22 407 25 056
31323000	Nonwoven fabrics	2002.. X 1997.. X	11 728 N
31321017	Broadwoven fabrics	2002.. X 1997.. X	4 630 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X 1997.. X	165 406 188 194
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X 1997.. X	286 438 207 371
32610009	Fabricated plastics products	2002.. X 1997.. X	557 524 404 084
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	2002.. X 1997.. X	60 780 58 965
33910000	Surgical and orthopedic supplies (including sutures and hypodermic needles for further manufacture or assembly)	2002.. X 1997.. X	1 056 834 632 932
332000A9	Sheet metal products (excluding stampings)	2002.. X 1997.. X	31 962 N
32552001	Adhesives and sealants	2002.. X 1997.. X	21 227 9 313
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X 1997.. X	101 011 130 329
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)	2002.. X 1997.. X	36 868 44 839
00970099	All other materials and components, parts, containers, and supplies	2002.. X 1997.. X	1 363 670 1 029 445
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X 1997.. X	1 188 308 1 201 552
339113	Surgical appliance and supplies manufacturing		
00900001	Total materials	2002.. X 1997.. X	5 689 360 4 235 264
33441200	Printed circuit boards (without inserted components) for electronic circuitry	2002.. X 1997.. X	D N
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components)	2002.. X 1997.. X	54 743 N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	2002.. X 1997.. X	35 746 97 807
33593101	Current-carrying wiring devices	2002.. X 1997.. X	28 404 N
33531201	Electric motors and generators	2002.. X 1997.. X	70 152 N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X 1997.. X	59 315 37 369
332000AG	Other fabricated metal products (excluding forgings, sheet metal products, bolts, nuts, screws, rivets, and washers)	2002.. X 1997.. X	176 466 N
33151001	Iron and steel castings (rough and semifinished)	2002.. X 1997.. X	139 152 69 906
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X 1997.. X	30 573 21 814
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	142 664 72 464
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X 1997.. X	53 320 49 345
31323000	Nonwoven fabrics	2002.. X 1997.. X	195 138 N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339113	Surgical appliance and supplies manufacturing—Con.		
31321017	Broadwoven fabrics 2002..	X	269 036
	1997..	X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. 2002..	X	171 565
	1997..	X	118 850
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 2002..	X	210 775
	1997..	X	132 220
32610009	Fabricated plastics products 2002..	X	246 156
	1997..	X	135 252
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets) 2002..	X	35 287
	1997..	X	25 606
33910000	Surgical and orthopedic supplies (including sutures and hypodermic needles for further manufacture or assembly) 2002..	X	599 458
	1997..	X	568 409
332000A9	Sheet metal products (excluding stampings) 2002..	X	D
	1997..	X	N
32552001	Adhesives and sealants 2002..	X	76 198
	1997..	X	30 954
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	134 608
	1997..	X	112 896
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard) 2002..	X	71 767
	1997..	X	73 518
00970099	All other materials and components, parts, containers, and supplies 2002..	X	1 516 010
	1997..	X	1 558 628
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	1 310 466
	1997..	X	1 130 226
339114	Dental equipment and supplies manufacturing		
00900001	Total materials 2002..	X	831 322
	1997..	X	727 710
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	10 582
	1997..	X	17 085
33200057	Fabricated metal products (excluding forgings) 2002..	X	49 106
	1997..	X	N
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	232 175
	1997..	X	141 172
32500006	Chemical, all types (including resins) 2002..	X	47 710
	1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components 2002..	X	18 790
	1997..	X	29 659
32610011	Fabricated plastics products (excluding gaskets) 2002..	X	36 051
	1997..	X	32 028
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	30 668
	1997..	X	25 544
00970099	All other materials and components, parts, containers, and supplies 2002..	X	208 625
	1997..	X	353 276
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	197 615
	1997..	X	128 946
339115	Ophthalmic goods manufacturing		
00900001	Total materials 2002..	X	1 322 971
	1997..	X	831 229
00190037	Lens blanks, optical and ophthalmic 2002..	X	156 080
	1997..	X	N
33331403	Lenses and prisms for optical instruments and sighting and fire control equipment 2002..	X	D
	1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. 2002..	X	87 558
	1997..	X	62 254
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes 2002..	X	D
	1997..	X	51 800
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	40 555
	1997..	X	D
00970099	All other materials and components, parts, containers, and supplies 2002..	X	696 629
	1997..	X	429 098
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	271 983
	1997..	X	238 347
339116	Dental laboratories		
00900001	Total materials 2002..	X	492 547
	1997..	X	611 391
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) 2002..	X	4 294
	1997..	X	N
33200082	Fabricated metal products (excluding forgings and castings) 2002..	X	4 925
	1997..	X	N
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	75 458
	1997..	X	N
32500006	Chemical, all types (including resins) 2002..	X	13 010
	1997..	X	N

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339116	Dental laboratories—Con.		
32610011	Fabricated plastics products (excluding gaskets) 2002..	X	5 711
	1997..	X	N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components 2002..	X	253
	1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard 2002..	X	3 055
	1997..	X	N
00970099	All other materials and components, parts, containers, and supplies 2002..	X	72 084
	1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	313 757
	1997..	X	N
339911	Jewelry (except costume) manufacturing		
00900001	Total materials 2002..	X	2 960 936
	1997..	X	2 371 364
33200005	Fabricated metal products, including forgings 2002..	X	85 895
	1997..	X	50 504
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	933 500
	1997..	X	681 958
33100027	Other metal shapes and forms (including castings) 2002..	X	82 525
	1997..	X	92 727
33991303	Precious, semiprecious, and synthetic stones and pearls (cut, polished, and drilled) 2002..	X	658 373
	1997..	X	497 539
33991301	Jewelers' findings (including joints, pins, clasps, chains, flat stock, etc.) 2002..	X	213 876
	1997..	X	94 358
33990000	Other jewelry, silverware, and plated ware 2002..	X	36 784
	1997..	X	78 936
00970099	All other materials and components, parts, containers, and supplies 2002..	X	177 898
	1997..	X	213 021
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	772 085
	1997..	X	662 321
339912	Silverware and hollowware manufacturing		
00900001	Total materials 2002..	X	197 950
	1997..	X	251 237
33200005	Fabricated metal products, including forgings 2002..	X	65 781
	1997..	X	N
33100027	Other metal shapes and forms (including castings) 2002..	X	739
	1997..	X	N
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	19 681
	1997..	X	59 236
00970099	All other materials and components, parts, containers, and supplies 2002..	X	92 538
	1997..	X	171 032
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	19 211
	1997..	X	20 969
339913	Jewelers' material and lapidary work manufacturing		
00900001	Total materials 2002..	X	601 648
	1997..	X	466 641
33200005	Fabricated metal products, including forgings 2002..	X	25 568
	1997..	X	D
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	77 233
	1997..	X	122 995
33100027	Other metal shapes and forms (including castings) 2002..	X	D
	1997..	X	D
33991303	Precious, semiprecious, and synthetic stones and pearls (cut, polished, and drilled) 2002..	X	D
	1997..	X	94 843
33991301	Jewelers' findings (including joints, pins, clasps, chains, flat stock, etc.) 2002..	X	85 535
	1997..	X	31 807
33990000	Other jewelry, silverware, and plated ware 2002..	X	D
	1997..	X	40 795
00970099	All other materials and components, parts, containers, and supplies 2002..	X	33 866
	1997..	X	5 948
00971000	Materials, ingredients, containers, and supplies, nsk 2002..	X	230 419
	1997..	X	129 428
339914	Costume jewelry and novelty manufacturing		
00900001	Total materials 2002..	X	226 579
	1997..	X	385 854
33200005	Fabricated metal products, including forgings 2002..	X	14 478
	1997..	X	28 507
33141901	Precious metals (gold, platinum, etc.), all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.) 2002..	X	23 262
	1997..	X	24 373
33100027	Other metal shapes and forms (including castings) 2002..	X	4 290
	1997..	X	6 085
33991303	Precious, semiprecious, and synthetic stones and pearls (cut, polished, and drilled) 2002..	X	27 299
	1997..	X	54 884
33991301	Jewelers' findings (including joints, pins, clasps, chains, flat stock, etc.) 2002..	X	17 704
	1997..	X	43 461
33990000	Other jewelry, silverware, and plated ware 2002..	X	12 359
	1997..	X	39 097

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339914	Costume jewelry and novelty manufacturing—Con.		
00970099	All other materials and components, parts, containers, and supplies	2002.. X	29 407
		1997.. X	71 403
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	97 780
		1997.. X	118 044
339920	Sporting and athletic goods manufacturing		
00900001	Total materials	2002.. X	3 958 111
		1997.. X	3 820 094
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	67 874
		1997.. X	78 574
33200095	Other fabricated metal products (excluding castings and forgings)	2002.. X	121 912
		1997.. X	158 973
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	2002.. X	72 409
		1997.. X	82 842
33152015	Other castings (rough and semifinished)	2002.. X	89 555
		1997.. X	154 799
33120016	Steel sheet and strip (including tinplate)	2002.. X	85 499
		1997.. X	N
33120030	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	109 212
		1997.. X	N
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing	2002.. X	21 200
		1997.. X	N
33100055	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	40 747
		1997.. X	56 615
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	10 814
		1997.. X	20 234
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	36 534
		1997.. X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	197 664
		1997.. X	176 452
32500051	All other chemicals and allied products (excluding plastics materials and resins and paints, varnishes and allied products)	2002.. X	43 820
		1997.. X	55 129
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	109 827
		1997.. X	137 861
31321017	Broadwoven fabrics	2002.. X	101 670
		1997.. X	N
32100019	Rough and dressed lumber	2002.. X	108 162
		1997.. X	87 479
00190004	Parts, for sporting goods	2002.. X	401 512
		1997.. X	567 860
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	127 756
		1997.. X	161 873
00970099	All other materials and components, parts, containers, and supplies	2002.. X	862 333
		1997.. X	1 315 363
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	1 349 611
		1997.. X	766 040
339931	Doll and stuffed toy manufacturing		
00900001	Total materials	2002.. X	107 137
		1997.. X	90 316
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	D
		1997.. X	898
31321017	Broadwoven fabrics	2002.. X	1 940
		1997.. X	N
32221001	Paperboard containers, boxes, and corrugated paperboard	2002.. X	685
		1997.. X	1 115
32200003	Other paper products	2002.. X	D
		1997.. X	177
33993100	Doll parts	2002.. X	16 076
		1997.. X	20 175
00970099	All other materials and components, parts, containers, and supplies	2002.. X	11 994
		1997.. X	39 062
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	76 339
		1997.. X	28 889
339932	Game, toy, and children's vehicle manufacturing		
00900001	Total materials	2002.. X	1 268 093
		1997.. X	1 445 207
33200005	Fabricated metal products, including forgings	2002.. X	50 278
		1997.. X	30 978
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	3 684
		1997.. X	24 896
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	2002.. X	121 110
		1997.. X	317 128
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	2002.. X	130 593
		1997.. X	140 709

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339932	Game, toy, and children's vehicle manufacturing— Con.		
31321017	Broadwoven fabrics.....2002..	X	11 305
	.....1997..	X	N
32213001	Paperboard (including news, chip, pasted, tablet, check, binders' board), excluding for shipping .....2002..	X	41 843
	.....1997..	X	77 885
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	88 768
	.....1997..	X	150 304
32200003	Other paper products .....2002..	X	27 377
	.....1997..	X	45 536
32100001	Lumber and wood products (excluding furniture).....2002..	X	18 926
	.....1997..	X	N
001900B4	Electronic components and accessories (including circuit boards and recording heads).....2002..	X	35 092
	.....1997..	X	58 927
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	237 263
	.....1997..	X	415 894
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	501 854
	.....1997..	X	182 950
339941	Pen and mechanical pencil manufacturing		
00900001	Total materials .....2002..	X	505 269
	.....1997..	X	543 759
32100001	Lumber and wood products (excluding furniture).....2002..	X	D
	.....1997..	X	D
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	21 896
	.....1997..	X	33 932
32513005	Pigments, lakes, and toners (organic and inorganic) .....2002..	X	2 893
	.....1997..	X	D
32500059	Other chemicals and allied products .....2002..	X	6 152
	.....1997..	X	13 169
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	21 620
	.....1997..	X	67 772
33200005	Fabricated metal products, including forgings .....2002..	X	D
	.....1997..	X	41 945
33994100	Pens and mechanical pencils parts .....2002..	X	127 587
	.....1997..	X	177 326
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	192 691
	.....1997..	X	112 567
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	S
	.....1997..	X	31 605
339942	Lead pencil and art good manufacturing		
00900001	Total materials .....2002..	X	439 691
	.....1997..	X	408 848
32100001	Lumber and wood products (excluding furniture).....2002..	X	26 332
	.....1997..	X	40 661
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	32 136
	.....1997..	X	39 789
32513005	Pigments, lakes, and toners (organic and inorganic) .....2002..	X	35 216
	.....1997..	X	28 451
32500059	Other chemicals and allied products .....2002..	X	32 839
	.....1997..	X	30 357
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	30 925
	.....1997..	X	36 525
33200005	Fabricated metal products, including forgings .....2002..	X	D
	.....1997..	X	11 835
33994100	Pens and mechanical pencils parts .....2002..	X	D
	.....1997..	X	4 796
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	134 086
	.....1997..	X	144 517
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	136 216
	.....1997..	X	71 917
339943	Marking device manufacturing		
00900001	Total materials .....2002..	X	157 620
	.....1997..	X	191 225
32100001	Lumber and wood products (excluding furniture).....2002..	X	10 251
	.....1997..	X	15 447
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	3 093
	.....1997..	X	14 185
32513005	Pigments, lakes, and toners (organic and inorganic) .....2002..	X	1 979
	.....1997..	X	D
32500059	Other chemicals and allied products .....2002..	X	2 628
	.....1997..	X	1 999
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	7 410
	.....1997..	X	25 450
33200005	Fabricated metal products, including forgings .....2002..	X	D
	.....1997..	X	26 657
33994100	Pens and mechanical pencils parts .....2002..	X	D
	.....1997..	X	D
00970099	All other materials and components, parts, containers, and supplies.....2002..	X	70 244
	.....1997..	X	68 870
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	59 703
	.....1997..	X	29 457

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339944	Carbon paper and inked ribbon manufacturing		
00900001	Total materials .....2002..	X	268 720
	.....1997..	X	377 016
31320003	Textile fabrics .....2002..	X	26 841
	.....1997..	X	12 259
32212005	Paper, purchased (market) .....2002..	X	9 232
	.....1997..	X	27 731
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	5 832
	.....1997..	X	32 371
32500008	Chemicals and allied products (including carbon black and printing inks) .....2002..	X	83 299
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	55 292
	.....1997..	X	259 488
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	88 224
	.....1997..	X	45 167
339950	Sign manufacturing		
00900001	Total materials .....2002..	X	3 157 429
	.....1997..	X	2 689 516
32121001	Veneer and plywood .....2002..	X	44 622
	.....1997..	X	43 969
32200001	Paper and paperboard products (including paperboard boxes, containers, and corrugated paperboard) .....2002..	X	78 569
	.....1997..	X	157 618
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	46 936
	.....1997..	X	43 839
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	37 374
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	227 055
	.....1997..	X	262 370
33251005	Metal hardware (including hinges, handles, locks, casters, etc.) .....2002..	X	52 899
	.....1997..	X	47 833
33200047	All other fabricated metal products (excluding castings and forgings) .....2002..	X	175 532
	.....1997..	X	132 092
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	84 360
	.....1997..	X	35 239
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	73 306
	.....1997..	X	38 668
33531100	Specialty transformers and fluorescent ballasts .....2002..	X	51 073
	.....1997..	X	59 286
32100043	Wood (excluding veneer and plywood) .....2002..	X	39 659
	.....1997..	X	48 997
00190094	Manufactured products used for advertising specialties (including pens, pencils, key chains, calendars, magnets, etc.) .....2002..	X	138 495
	.....1997..	X	79 503
31300045	Textiles and fabrics .....2002..	X	20 231
	.....1997..	X	20 305
32591002	Printing inks .....2002..	X	21 044
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	491 804
	.....1997..	X	617 454
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 574 470
	.....1997..	X	1 102 343
339991	Gasket, packing, and sealing device manufacturing		
00900001	Total materials .....2002..	X	1 914 444
	.....1997..	X	1 752 739
32199901	Cork products .....2002..	X	13 800
	.....1997..	X	23 648
32212029	Building paper and board .....2002..	X	40 717
	.....1997..	X	52 926
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	121 914
	.....1997..	X	130 979
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	34 911
	.....1997..	X	N
32521204	Synthetic rubber .....2002..	X	220 018
	.....1997..	X	N
11321001	Natural rubber .....2002..	X	36 010
	.....1997..	X	37 380
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets) .....2002..	X	60 532
	.....1997..	X	70 989
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	244 637
	.....1997..	X	N
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.) .....2002..	X	47 922
	.....1997..	X	N
33200015	All other fabricated metal products (including forgings) .....2002..	X	113 831
	.....1997..	X	126 049
33120012	Steel tinplate, tin free steel, terneplate, and blackplate .....2002..	X	37 306
	.....1997..	X	N
33120077	All other steel shapes and forms (excluding forgings and fabricated metal products) .....2002..	X	85 775
	.....1997..	X	102 631
32799213	Natural graphite .....2002..	X	41 664

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339991	Gasket, packing, and sealing device manufacturing— Con.		
	1997..	X	29 593
32799201	Carbon, ground or treated	X	20 713
	2002..	X	30 051
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	517 219
	2002..	X	911 419
	1997..	X	277 475
00971000	Materials, ingredients, containers, and supplies, nsk	X	237 074
	2002..	X	
	1997..	X	
339992	Musical instrument manufacturing		
00900001	Total materials	X	521 004
	2002..	X	403 768
	1997..	X	
32100019	Rough and dressed lumber	X	78 595
	2002..	X	62 565
	1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	11 340
	2002..	X	13 667
	1997..	X	
001900B4	Electronic components and accessories (including circuit boards and recording heads)	X	45 743
	2002..	X	33 649
	1997..	X	
33999200	Musical instruments parts (including actions, strings, mouthpieces, etc.)	X	132 127
	2002..	X	100 119
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	175 512
	2002..	X	138 950
	1997..	X	77 687
00971000	Materials, ingredients, containers, and supplies, nsk	X	54 818
	2002..	X	
	1997..	X	
339993	Fastener, button, needle, and pin manufacturing		
00900001	Total materials	X	220 829
	2002..	X	306 090
	1997..	X	
33200005	Fabricated metal products, including forgings	X	D
	2002..	X	20 467
	1997..	X	
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	24 597
	2002..	X	15 042
	1997..	X	
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	N
	1997..	X	
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	2002..	X	52 600
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	12 519
	2002..	X	25 233
	1997..	X	
31320005	Cotton and manmade fiber fabrics, broadwoven and narrow woven	X	32 331
	2002..	X	38 866
	1997..	X	
33999305	Buckles, button parts, buttons, fasteners, needles, pins, and zippers purchased for further manufacture or assembly	X	41 091
	2002..	X	N
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	62 602
	2002..	X	111 549
	1997..	X	9 006
00971000	Materials, ingredients, containers, and supplies, nsk	X	42 333
	2002..	X	
	1997..	X	
339994	Broom, brush, and mop manufacturing		
00900001	Total materials	X	788 962
	2002..	X	835 372
	1997..	X	
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	62 610
	2002..	X	85 035
	1997..	X	
33200005	Fabricated metal products, including forgings	X	18 130
	2002..	X	N
	1997..	X	
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	19 083
	2002..	X	22 010
	1997..	X	
31300001	Yarns and textiles (cotton, wool, silk, and manmade fibers)	X	112 752
	2002..	X	151 371
	1997..	X	
32199903	Wood brush handles and backs	X	55 700
	2002..	X	56 002
	1997..	X	
32221001	Paperboard containers, boxes, and corrugated paperboard	X	50 578
	2002..	X	60 050
	1997..	X	
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	45 026
	2002..	X	75 459
	1997..	X	
33999900	Dressed hair (including bristle and horsehair)	X	16 652
	2002..	X	26 827
	1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	299 862
	2002..	X	316 977
	1997..	X	108 569
00971000	Materials, ingredients, containers, and supplies, nsk	X	41 641
	2002..	X	
	1997..	X	
339995	Burial casket manufacturing		
00900001	Total materials	X	386 707
	2002..	X	325 645
	1997..	X	
31320007	Fabrics (cotton, wool, manmade fiber, etc.)	X	27 243
	2002..	X	52 343
	1997..	X	
32100019	Rough and dressed lumber	X	43 827
	2002..	X	43 412
	1997..	X	
33251003	Metal casket and casket shell hardware	X	62 138
	2002..	X	48 273
	1997..	X	

See footnotes at end of table.

Table 1. Materials Consumed by Kind by Industry: 2002 and 1997—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified in the specified industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

NAICS and material code	Industry and materials consumed	Quantity	Delivered cost (\$1,000)
339995	Burial casket manufacturing—Con.		
3320045	Other fabricated metal products (excluding castings and forgings) .....2002..	X	27 136
	.....1997..	X	12 380
3312001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	135 680
	.....1997..	X	83 389
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....2002..	X	19 188
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	59 196
	.....1997..	X	57 338
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	12 299
	.....1997..	X	28 510
339999	All other miscellaneous manufacturing		
00900001	Total materials .....2002..	X	4 793 220
	.....1997..	X	3 128 671
32100019	Rough and dressed lumber .....2002..	X	139 174
	.....1997..	X	29 083
33200005	Fabricated metal products, including forgings .....2002..	X	390 970
	.....1997..	X	3 271
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	143 341
	.....1997..	X	281 943
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	230 863
	.....1997..	X	106 651
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	79 161
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	85 566
	.....1997..	X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	155 493
	.....1997..	X	145 229
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	122 486
	.....1997..	X	113 365
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	1 616 477
	.....1997..	X	1 462 940
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 829 689
	.....1997..	X	986 189

¹The definition of this industry has changed from 1997. See Industry Series report EC0231I-339111, Laboratory Apparatus and Furniture Manufacturing, Appendix B for an explanation of the changes.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

COST OF MATERIALS

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

Included in this item are:

1. Cost of parts, components, containers, etc. Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
2. Cost of products bought and sold in the same condition.
3. Cost of fuels consumed for heat and power. Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. Cost of purchased electricity. The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
5. Cost of contract work. This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Specific materials consumed

In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials that were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. If less than \$25,000 of a listed material was consumed by an establishment, the cost data could be reported in the "Cost of all other materials" Census material code 00970099.

Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the "Materials not specified by kind" Census materials code 00971000.

Appendix B.

NAICS Codes, Titles, and Descriptions

311111 DOG AND CAT FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dog and cat food from ingredients, such as grains, oilseed mill products, and meat products.

311119 OTHER ANIMAL FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing animal food (except dog and cat) from ingredients, such as grains, oilseed mill products, and meat products.

311211 FLOUR MILLING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. milling flour or meal from grains (except rice) or vegetables and/or
2. milling flour and preparing flour mixes or doughs.

311212 RICE MILLING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. milling rice;
2. cleaning and polishing rice; or
3. milling, cleaning, and polishing rice.

The establishments in this industry may package the rice they mill with other ingredients.

311213 MALT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing malt from barley, rye, or other grains.

311221 WET CORN MILLING

This U.S. industry comprises establishments primarily engaged in wet milling corn and other vegetables (except to make ethyl alcohol). Examples of products made in these establishments are corn sweeteners, such as glucose, dextrose, and fructose; corn oil; and starches (except laundry).

311222 SOYBEAN PROCESSING

This U.S. industry comprises establishments engaged in crushing soybeans. Examples of products produced in these establishments are soybean oil, soybean cake and meal, and soybean protein isolates and concentrates.

311223 OTHER OILSEED PROCESSING

This U.S. industry comprises establishments engaged in crushing oilseeds (except soybeans) and tree nuts, such as cottonseeds, linseeds, peanuts, and sunflower seeds.

311225 FATS AND OILS REFINING AND BLENDING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. shortening and margarine from purchased fats and oils;
2. refining and/or blending vegetable, oilseed, and tree nut oils from purchased oils; and
3. blending purchased animal fats with purchased vegetable fats.

311230 BREAKFAST CEREAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing breakfast cereal foods.

311311 SUGARCANE MILLS

This U.S. industry comprises establishments primarily engaged in processing sugarcane.

311312 CANE SUGAR REFINING

This U.S. industry comprises establishments primarily engaged in refining cane sugar from raw cane sugar.

311313 BEET SUGAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing refined beet sugar from sugarbeets.

311320 CHOCOLATE AND CONFECTIONERY MANUFACTURING FROM CACAO BEANS

This U.S. industry comprises establishments primarily engaged in shelling, roasting, and grinding cacao beans and making chocolate cacao products and chocolate confectioneries.

311330 CONFECTIONERY MANUFACTURING FROM PURCHASED CHOCOLATE

This U.S. industry comprises establishments primarily engaged in manufacturing chocolate confectioneries from chocolate produced elsewhere. Included in this industry are establishments primarily engaged in retailing chocolate confectionery products not for immediate consumption made on the premises from chocolate made elsewhere.

311340 NONCHOCOLATE CONFECTIONERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonchocolate confectioneries. Included in this industry are establishments primarily engaged in retailing nonchocolate confectionery products not for immediate consumption made on the premises.

311411 FROZEN FRUIT, JUICE, AND VEGETABLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen fruits; frozen vegetables; and frozen fruit juices, ades, drinks, cocktail mixes and concentrates.

311412 FROZEN SPECIALTY FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen specialty foods (except seafood), such as frozen dinners, entrees, and side dishes; frozen pizza; frozen whipped topping; and frozen waffles, pancakes, and french toast.

311421 FRUIT AND VEGETABLE CANNING

This U.S. industry comprises establishments primarily engaged in manufacturing canned, pickled, and brined fruits and vegetables. Examples of products made in these establishments are canned juices; canned jams and jellies; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut.

311422 SPECIALTY CANNING

This U.S. industry comprises establishments primarily engaged in manufacturing canned specialty foods. Examples of products made in these establishments are canned baby food, canned baked beans, canned soups (except seafood), canned spaghetti, and other canned nationality foods.

311423 DRIED AND DEHYDRATED FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. drying (including freeze-dried) and/or dehydrating fruits, vegetables, and soup mixes and bouillon and/or
2. drying and/or dehydrating ingredients and packaging them with other purchased ingredients, such as rice and dry pasta.

311511 FLUID MILK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. processed milk products, such as pasteurized milk or cream and sour cream and/or
2. fluid milk dairy substitutes from soybeans and other nondairy substances.

311512 CREAMERY BUTTER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing creamery butter from milk and/or processed milk products.

311513 CHEESE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cheese products (except cottage cheese) from raw milk and/or processed milk products and/or
2. cheese substitutes from soybean and other nondairy substances.

311514 DRY, CONDENSED, AND EVAPORATED DAIRY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dry, condensed, and evaporated milk and dairy substitute products.

311520 ICE CREAM AND FROZEN DESSERT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ice cream, frozen yogurts, frozen ices, sherbets, frozen tofu, and other frozen desserts (except bakery products).

311611 ANIMAL (EXCEPT POULTRY) SLAUGHTERING

This U.S. industry comprises establishments primarily engaged in slaughtering animals (except poultry and small game). Establishments that slaughter and prepare meats are included in this industry.

311612 MEAT PROCESSED FROM CARCASSES

This U.S. industry comprises establishments primarily engaged in processing or preserving meat and meat byproducts (except poultry and small game) from purchased meats. This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased meats.

311613 RENDERING AND MEAT BYPRODUCT PROCESSING

This U.S. industry comprises establishments primarily engaged in rendering animal fat, bones, and meat scraps.

311615 POULTRY PROCESSING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. slaughtering poultry and small game and/or
2. preparing processed poultry and small game meat and meat byproducts.

311711 SEAFOOD CANNING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. canning seafood (including soup) and marine fats and oils and/or
2. smoking, salting, and drying seafood.

Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are also included in this industry.

311712 FRESH AND FROZEN SEAFOOD PROCESSING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
2. shucking and packing fresh shellfish;
3. frozen seafood; and
4. processing fresh and frozen marine fats and oils.

311811 RETAIL BAKERIES

This U.S. industry comprises establishments primarily engaged in retailing bread and other bakery products not for immediate consumption made on the premises from flour, not from prepared dough.

311812 COMMERCIAL BAKERIES

This U.S. industry comprises establishments primarily engaged in manufacturing fresh and frozen bread and bread-type rolls and other fresh bakery (except cookies and crackers) products.

311813 FROZEN CAKES, PIES, AND OTHER PASTRIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing frozen bakery products (except bread), such as cakes, pies, and doughnuts.

311821 COOKIE AND CRACKER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cookies, crackers, and other products, such as ice cream cones.

311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

This U.S. industry comprises establishments primarily engaged in manufacturing prepared flour mixes or dough mixes from flour ground elsewhere.

311823 DRY PASTA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dry pasta. The establishments in this industry may package the dry pasta they manufacture with other ingredients.

311830 TORTILLA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing tortillas.

311911 ROASTED NUTS AND PEANUT BUTTER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. salting, roasting, drying, cooking, or canning nuts;
2. processing grains or seeds into snacks; and
3. peanut butter.

311919 OTHER SNACK FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing snack foods (except roasted nuts and peanut butter).

311920 COFFEE AND TEA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. roasting coffee;
2. coffee and tea concentrates (including instant and freeze-dried);
3. blending tea;
4. herbal tea; and
5. coffee extracts, flavorings, and syrups.

311930 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing flavoring syrup drink concentrates and related products for soda fountain use or for the manufacture of soft drinks.

311941 MAYONNAISE, DRESSING, AND OTHER PREPARED SAUCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravy).

311942 SPICE AND EXTRACT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. spices, table salt, seasonings, flavoring extracts (except coffee and meat), and natural food colorings and/or
2. dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

311991 PERISHABLE PREPARED FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing perishable prepared foods, such as salads, sandwiches, prepared meals, fresh pizza, fresh pasta, and peeled or cut vegetables.

311999 ALL OTHER MISCELLANEOUS FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing food (except animal food; grain and oilseed milling; sugar and confectionery products; preserved fruits, vegetables, and specialties; dairy products; meat products; seafood products; bakery and tortillas products; snack foods; coffee and tea; flavoring syrups and concentrates; seasonings and dressings; and perishable prepared food). Included in this industry are establishments primarily engaged in mixing purchased dried and/or dehydrated ingredients including those mixing purchased dried and/or dehydrated ingredients for soup mixes and bouillon.

312111 SOFT DRINK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing soft drinks and artificially carbonated waters.

312112 BOTTLED WATER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in purifying and bottling water (including naturally carbonated).

312113 ICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ice.

312120 BREWERIES

This U.S. industry comprises establishments primarily engaged in brewing beer, ale, malt liquors, and nonalcoholic beer.

312130 WINERIES

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. wine and brandies from grown grapes;
2. wine and brandies from grapes and other fruits grown elsewhere; and
3. blending wines and brandies.

312140 DISTILLERIES

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. distilling potable liquors (except brandies);

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2. distilling and blending liquors; and
 3. blending and mixing liquors and other ingredients.

312210 TOBACCO STEMMING AND REDRYING

This U.S. industry comprises establishments primarily engaged in the stemming and redrying of tobacco.

312221 CIGARETTE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cigarettes.

312229 OTHER TOBACCO PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing tobacco products (except cigarettes).

313111 YARN SPINNING MILLS

This U.S. industry comprises establishments primarily engaged in spinning yarn from any fiber and/or producing hemp yarn and further processing into rope or bags.

313112 YARN TEXTURIZING, THROWING, AND TWISTING MILLS

This U.S. industry comprises establishments primarily engaged in texturizing, throwing, twisting, spooling, or winding purchased yarns or manmade fiber filaments.

313113 THREAD MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing thread (e.g., sewing, hand-knitting, crochet) of all fibers.

313210 BROADWOVEN FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in weaving broadwoven fabrics and felts (except tire fabrics and rugs). Establishments in this industry may weave only, weave and finish, or weave, finish, and further fabricate fabric products.

313221 NARROW FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. weaving or braiding narrow fabrics in their final form or initially made in wider widths that are specially constructed for narrower widths and/or
2. making fabric-covered elastic yarn and thread.

Establishments in this industry may weave only; weave and finish; or weave, finish, and further fabricate fabric products.

313222 SCHIFFLI MACHINE EMBROIDERY

This U.S. industry comprises establishments primarily engaged in manufacturing Schiffli machine embroideries.

313230 NONWOVEN FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing nonwoven fabrics and felts. Processes used include bonding and/or interlocking fibers by mechanical, chemical, thermal, or solvent means, or by combinations thereof.

313241 WEFT KNIT FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in knitting weft (i.e., circular) fabric or knitting and finishing weft fabric. Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

313249 OTHER KNIT FABRIC AND LACE MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting warp (i.e., flat) fabric;
2. knitting and finishing warp fabric;
3. lace; or
4. dyeing or finishing lace and lace goods.

Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

313311 BROADWOVEN FABRIC FINISHING MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. finishing of broadwoven fabrics and
2. converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale.

313312 TEXTILE AND FABRIC FINISHING (EXCEPT BROADWOVEN FABRIC) MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. dyeing, bleaching, printing, and other finishing of textiles, apparel, and fabrics (except broadwoven) and
2. converters who buy fabrics (except broadwoven) in the grey, have them finished on contract, and sell at wholesale. Finishing operations include bleaching, dyeing, printing (e.g., roller, screen, flock, plisse), stonewashing, and other mechanical finishing, such as preshrinking, shrinking, sponging, calendaring, mercerizing and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock.

313320 FABRIC COATING MILLS

This U.S. industry comprises establishments primarily engaged in coating, laminating, varnishing, waxing, and rubberizing textiles and apparel.

314110 CARPET AND RUG MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needlepunch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, sisal, jute, or rags and/or
2. finishing carpets and rugs.

314121 CURTAIN AND DRAPERY MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing window curtains and draperies from purchased fabrics or sheet goods. The curtains and draperies may be made on a stock or custom basis for sale to individual retail customers.

314129 OTHER HOUSEHOLD TEXTILE PRODUCT MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing household textile products (except window curtains and draperies), such as bedspreads, sheets, tablecloths, towels, and shower curtains, from purchased materials.

314911 TEXTILE BAG MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing bags from purchased textile fabrics or yarns.

314912 CANVAS AND RELATED PRODUCT MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing canvas and canvas-like products, such as awnings, sails, tarpaulins, and tents, from purchased fabrics.

314991 ROPE, CORDAGE, AND TWINE MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from all materials (e.g., abaca, sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass).

314992 TIRE CORD AND TIRE FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing cord and fabric of polyester, rayon, cotton, glass, steel, or other materials for use in reinforcing rubber tires, industrial belting, and similar uses.

314999 ALL OTHER MISCELLANEOUS TEXTILE PRODUCT MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing textile products (except carpets and rugs; curtains and linens; textile bags and canvas products; rope, cordage, and twine; and tire cords and tire fabrics) from purchased materials.

315111 SHEER HOSIERY MILLS

This U.S. industry comprises establishments primarily engaged in knitting or knitting and finishing women's, misses', and girls' full-length and knee-length sheer hosiery (except socks).

315119 OTHER HOSIERY AND SOCK MILLS

This U.S. industry comprises establishments primarily engaged in knitting or knitting and finishing hosiery (except women's, misses', and girls' sheer hosiery).

315191 OUTERWEAR KNITTING MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting outerwear;
2. knitting fabric and manufacturing outerwear; and
3. knitting, manufacturing, and finishing knit outerwear.

Examples of products made in knit outerwear mills are shirts, shorts, sweat suits, sweaters, gloves, and pants.

315192 UNDERWEAR AND NIGHTWEAR KNITTING MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting underwear and nightwear;
2. knitting fabric and manufacturing underwear and nightwear; or
3. knitting, manufacturing, and finishing knit underwear and nightwear.

Examples of products produced in underwear and nightwear knitting mills are briefs, underwear T-shirts, pajamas, nightshirts, foundation garments, and panties.

315211 MEN'S AND BOYS' CUT AND SEW APPAREL CONTRACTORS

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in one or more of the following manufacturing activities:

1. cutting materials owned by others for men's and boys' apparel and/or
2. sewing materials owned by others for men's and boys' apparel.

315212 WOMEN'S, GIRLS', AND INFANTS' CUT AND SEW APPAREL CONTRACTORS

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in one or more of the following manufacturing activities:

1. cutting materials owned by others for women's, girls', and infants' apparel and accessories and/or
2. sewing materials owned by others for women's, girls', and infants' apparel and accessories.

315221 MEN'S AND BOYS' CUT AND SEW UNDERWEAR AND NIGHTWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' underwear and nightwear from purchased fabric. Men's and boys' underwear and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are briefs, bathrobes, underwear T-shirts and shorts, nightshirts, and pajamas.

315222 MEN'S AND BOYS' CUT AND SEW SUIT, COAT, AND OVERCOAT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' suits, overcoats, sport coats, tuxedos, dress uniforms, and other tailored apparel (except fur and leather) from purchased fabric. Men's and boys' suit, coat, and overcoat jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315223 MEN'S AND BOYS' CUT AND SEW SHIRT (EXCEPT WORK SHIRT) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric. Men's and boys' shirt (except work shirt) jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex outerwear shirts, such as T-shirts and sweatshirts that are sized without specific reference to gender (i.e., adult S, M, L, XL) are included in this industry.

315224 MEN'S AND BOYS' CUT AND SEW TROUSER, SLACK, AND JEAN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' jeans, dungarees, and other separate trousers and slacks (except work pants) from purchased fabric. Men's and boys' trouser, slack, and jean jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315225 MEN'S AND BOYS' CUT AND SEW WORK CLOTHING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' work shirts, work pants (excluding jeans and dungarees), other work clothing, and washable service apparel from purchased fabric. Men's and boys' work clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are washable service apparel, laboratory coats, work shirts, work pants (except jeans and dungarees), and hospital apparel.

315228 MEN'S AND BOYS' CUT AND SEW OTHER OUTERWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and work clothing). Men's and boys' other outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex sweatpants and similar garments that are sized without specific reference to gender (i.e., adult S, M, L, XL) are also included in this industry. Examples of products made by these establishments are athletic clothing (except athletic uniforms), bathing suits, down coats, outerwear shorts, windbreakers and jackets, and jogging suits.

315231 WOMEN'S AND GIRLS' CUT AND SEW LINGERIE, LOUNGEWEAR, AND NIGHTWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric. Women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathrobes, foundation garments, nightgowns, pajamas, panties, and slips.

315232 WOMEN'S AND GIRLS' CUT AND SEW BLOUSE AND SHIRT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' blouses and shirts from purchased fabric. Women's and girls' blouse and shirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315233 WOMEN'S AND GIRLS' CUT AND SEW DRESS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' dresses from purchased fabric. Women's and girls' dress jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315234 WOMEN'S AND GIRLS' CUT AND SEW SUIT, COAT, TAILORED JACKET, AND SKIRT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric. Women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315239 WOMEN'S AND GIRLS' CUT AND SEW OTHER OUTERWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' cut and sew apparel from purchased fabric (except underwear, lingerie, nightwear, blouses, shirts, dresses, suits, tailored coats, tailored jackets, and skirts). Women's and girls' other outerwear clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathing suits, down coats, sweaters, jogging suits, outerwear pants and shorts, and windbreakers.

315291 INFANTS' CUT AND SEW APPAREL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing infants' dresses, blouses, shirts, and all other infants' wear from purchased fabric. Infants' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

315292 FUR AND LEATHER APPAREL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew fur and leather apparel, and sheep-lined clothing. Fur and leather apparel jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315299 ALL OTHER CUT AND SEW APPAREL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants' apparel; and fur and leather apparel). Clothing jobbers for these products, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

315991 HAT, CAP, AND MILLINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew hats, caps, millinery, and hat bodies from purchased fabric. Jobbers, who perform entrepreneurial functions involved in hat, cap, and millinery manufacture, including buying raw materials, designing and preparing samples, arranging for hats, caps, and millinery to be made from their materials, and marketing finished hats, caps, and millinery, are included.

315992 GLOVE AND MITTEN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew gloves (except rubber, metal, and athletic gloves) and mittens from purchased fabric, fur, leather, or from combinations of fabric, fur, or leather. Jobbers, who perform entrepreneurial functions involved in glove and mitten manufacture, including buying raw materials, designing and preparing samples, arranging for gloves and mittens to be made from their materials, and marketing finished gloves and mittens, are included.

315993 MEN'S AND BOYS' NECKWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew neckties, scarves, and mufflers from purchased fabric, leather, or from combinations of leather and fabric. Men's and boys' neckwear jobbers, who perform entrepreneurial functions involved in neckwear manufacture, including buying raw materials, designing and preparing samples, arranging for neckwear to be made from their materials, and marketing finished neckwear, are included.

315999 OTHER APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing apparel and apparel accessories (except apparel knitting mills; cut and sew apparel contractors; cut and sew apparel; hats and caps; mittens and gloves; and men's and boys' neckwear). Jobbers for these products, who perform entrepreneurial functions involved in other apparel and accessory manufacture, including buying raw materials, designing and preparing samples, arranging for other apparel and accessories to be made from their materials, and marketing finished other apparel and accessories, are included. Examples of products made by these establishments are apparel trimmings and findings, belts, women's scarves, and suspenders.

316110 LEATHER AND HIDE TANNING AND FINISHING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. tanning, currying, and finishing hides and skins;
2. having others process hides and skins on a contract basis; and
3. dyeing or dressing furs.

316211 RUBBER AND PLASTICS FOOTWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber and plastics footwear with vulcanized rubber or plastics soles, molded or cemented to rubber, plastics, or fabric uppers, and rubber and plastics protective footwear.

316212 HOUSE SLIPPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing house slippers and slipper socks, regardless of material.

316213 MEN'S FOOTWEAR (EXCEPT ATHLETIC) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's footwear designed primarily for dress, street, and work. This industry includes men's shoes with rubber or plastics soles and leather or vinyl uppers.

316214 WOMEN'S FOOTWEAR (EXCEPT ATHLETIC) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's footwear designed for dress, street, and work. This industry includes women's shoes with rubber or plastics soles and leather or vinyl uppers.

316219 OTHER FOOTWEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing other footwear (except rubber and plastics footwear; house slippers; men's footwear (except athletic); and women's footwear (except athletic)).

316991 LUGGAGE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing luggage of any material.

316992 WOMEN'S HANDBAG AND PURSE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing women's handbags and purses of any material (except precious metal).

316993 PERSONAL LEATHER GOOD (EXCEPT WOMEN'S HANDBAG AND PURSE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing personal leather goods (i.e., small articles of any material (except metal) normally carried on or about the person or in a handbag). Examples of personal leather goods made by these establishments are billfolds, coin purses, key cases, toilet kits, and watchbands (except metal).

316999 ALL OTHER LEATHER GOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing leather goods (except footwear, luggage, handbags, purses, and personal leather goods).

321113 SAWMILLS

This U.S. industry comprises establishments primarily engaged in sawing dimension lumber, boards, beams, timbers, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts. Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

321114 WOOD PRESERVATION

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives, such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or
2. sawing round wood poles, pilings, and posts and treating them with preservatives.

321211 HARDWOOD VENEER AND PLYWOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing hardwood veneer and/or hardwood plywood.

321212 SOFTWOOD VENEER AND PLYWOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing softwood veneer and/or softwood plywood.

321213 ENGINEERED WOOD MEMBER (EXCEPT TRUSS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated or laminated wood arches and/or other fabricated or laminated wood structural members.

321214 TRUSS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing laminated or fabricated wood roof and floor trusses.

321219 RECONSTITUTED WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing reconstituted wood sheets and boards.

321911 WOOD WINDOW AND DOOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing window and door units, sash, window and door frames, and doors from wood or wood clad with metal or plastics.

321912 CUT STOCK, RESAWING LUMBER, AND PLANING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. dimension lumber from purchased lumber;
2. dimension stock (i.e., shapes) or cut stock;
3. resawing the output of sawmills; and
4. planing purchased lumber.

These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

321918 OTHER MILLWORK (INCLUDING FLOORING)

This U.S. industry comprises establishments primarily engaged in manufacturing millwork (except wood windows, wood doors, and cut stock).

321920 WOOD CONTAINER AND PALLET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood pallets, wood box shoo, wood boxes, other wood containers, and wood parts for pallets and containers.

321991 MANUFACTURED HOME (MOBILE HOME) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in making manufactured homes (i.e., mobile homes) and nonresidential mobile buildings. Manufactured homes are designed to accept permanent water, sewer, and utility connections and although equipped with wheels, they are not intended for regular highway movement.

321992 PREFABRICATED WOOD BUILDING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated wood buildings and wood sections and panels for prefabricated wood buildings.

321999 ALL OTHER MISCELLANEOUS WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and preservation facilities; establishments manufacturing veneer, engineered wood products, millwork, wood containers, pallets, and wood container parts; and establishments making manufactured homes (i.e., mobile homes) and prefabricated buildings and components).

322110 PULP MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

322121 PAPER (EXCEPT NEWSPRINT) MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

322122 NEWSPRINT MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

322130 PAPERBOARD MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

322211 CORRUGATED AND SOLID FIBER BOX MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating purchased paper or paperboard into corrugated or solid fiber boxes and related products, such as pads, partitions, pallets, and corrugated paper without manufacturing paperboard. These boxes are generally used for shipping.

322212 FOLDING PAPERBOARD BOX MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard (except corrugated) into folding paperboard boxes without manufacturing paper and paperboard.

322213 SETUP PAPERBOARD BOX MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard into setup paperboard boxes (i.e., rigid-sided boxes not shipped flat) without manufacturing paperboard.

322214 FIBER CAN, TUBE, DRUM, AND SIMILAR PRODUCTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard into fiber cans, tubes, drums, and similar products without manufacturing paperboard.

322215 NONFOLDING SANITARY FOOD CONTAINER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting sanitary foodboard into food containers (except folding).

322221 COATED AND LAMINATED PACKAGING PAPER AND PLASTICS FILM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cutting and coating paper and

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2. cutting and laminating paper with other flexible materials (except plastics to plastics or foil to paper laminates).

The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

322222 COATED AND LAMINATED PAPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in performing one or more of the following manufacturing activities associated with making products designed for purposes other than packaging:

1. cutting and coating paper;
2. cutting and laminating paper and other flexible materials (except plastics film to plastics film); and
3. laminating aluminum and other metal foils for nonpackaging uses from purchased foils.

The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

322223 PLASTICS, FOIL, AND COATED PAPER BAG MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing bags of coated paper, of metal foil, or of laminated or coated combinations of plastics, foil, and paper, whether or not printed.

322224 UNCOATED PAPER AND MULTIWALL BAG MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing uncoated paper bags or multiwall bags and sacks.

322225 LAMINATED ALUMINUM FOIL MANUFACTURING FOR FLEXIBLE PACKAGING USES

This U.S. industry comprises establishments primarily engaged in laminating aluminum and other metal foil into products with flexible packaging uses or gift wrap and other packaging wrap applications.

322226 SURFACE-COATED PAPERBOARD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating, lining, or surface coating purchased paperboard to make other paperboard products.

322231 DIE-CUT PAPER AND PAPERBOARD OFFICE SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper rollstock or paperboard into die-cut paper or paperboard office supplies. For the purpose of this industry, office supplies are defined as office products, such as filing folders, index cards, rolls for adding machines, file separators and dividers, tabulating cards, and other paper and paperboard office supplies.

322232 ENVELOPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing envelopes for mailing or stationery of any material including combinations.

322233 STATIONERY, TABLET, AND RELATED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper and paperboard into products used for writing and similar applications (e.g., looseleaf fillers, notebooks, pads, stationery, and tablets).

322291 SANITARY PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting purchased sanitary paper stock or wadding into sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, sanitary napkins, and tampons.

322299 ALL OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper or paperboard into products (except containers, bags, coated and treated paper, stationery products, and sanitary paper products) or converting pulp into pulp products, such as egg cartons, food trays, and other food containers from molded pulp.

323110 COMMERCIAL LITHOGRAPHIC PRINTING

This U.S. industry comprises establishments primarily engaged in lithographic (i.e., offset) printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in lithographic printing on purchased stock materials, such as stationery, letterhead, invitations, labels, and similar items, on a job order basis.

323111 COMMERCIAL GRAVURE PRINTING

This U.S. industry comprises establishments primarily engaged in gravure printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in gravure printing on purchased stock materials, such as stationery, letterhead, invitations, labels, and similar items, on a job order basis.

323112 COMMERCIAL FLEXOGRAPHIC PRINTING

This U.S. industry comprises establishments primarily engaged in flexographic printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in flexographic printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

323113 COMMERCIAL SCREEN PRINTING

This U.S. industry comprises establishments primarily engaged in screen printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in screen printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis. Establishments primarily engaged in printing on apparel and textile products, such as T-shirts, caps, jackets, towels, and napkins, are included in this industry.

323114 QUICK PRINTING

This U.S. industry comprises establishments primarily engaged in traditional printing activities, such as short-run offset printing or prepress services, in combination with providing document photocopying service. Prepress services include receiving documents in electronic format and directly duplicating from the electronic file and formatting, colorizing, and otherwise modifying the original document to improve presentation. These establishments, known as quick printers, generally provide short-run printing and copying with fast turnaround times.

323115 DIGITAL PRINTING

This U.S. industry comprises establishments primarily engaged in printing graphical materials using digital printing equipment. Establishments known as digital printers typically provide sophisticated prepress services including using scanners to input images and computers to manipulate and format the graphic images prior to printing.

323116 MANIFOLD BUSINESS FORMS PRINTING

This U.S. industry comprises establishments primarily engaged in printing special forms, including checkbooks, for use in the operation of a business. The forms may be in single and multiple sets, including carbonized, interleaved with carbon, or otherwise processed for multiple reproduction.

323117 BOOKS PRINTING

This U.S. industry comprises establishments primarily engaged in printing or printing and binding books and pamphlets without publishing.

323118 BLANKBOOK, LOOSELEAF BINDERS, AND DEVICES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and binders. Establishments in this industry may print or print and bind.

323119 OTHER COMMERCIAL PRINTING

This U.S. industry comprises establishments primarily engaged in commercial printing (except lithographic, gravure, screen, or flexographic printing) without publishing (except books, grey goods, and manifold business forms). Printing processes included in this industry are letterpress printing and engraving printing. This industry includes establishments engaged in commercial printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

323121 TRADEBINDING AND RELATED WORK

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. tradebinding;
2. sample mounting; and
3. postpress services (e.g., book or paper bronzing, die-cutting, edging, embossing, folding, gilding, gluing, indexing).

323122 PREPRESS SERVICES

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. prepress services, such as imagesetting or typesetting, for printers and
2. preparing film or plates for printing purposes.

324110 PETROLEUM REFINERIES

This U.S. industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following manufacturing activities:

1. fractionation;
2. straight distillation of crude oil; and
3. cracking.

324121 ASPHALT PAVING MIXTURE AND BLOCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures and blocks from purchased asphaltic materials.

324122 ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and
2. asphalt and tar and roofing cements and coatings from purchased asphaltic materials.

324191 PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in blending or compounding refined petroleum to make lubricating oils and greases and/or re-refining used petroleum lubricating oils.

324199 ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing, and saturated materials and lubricating oils and greases) from refined petroleum and coal products made in coke ovens not integrated with a steel mill.

325110 PETROCHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or
2. cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325120 INDUSTRIAL GAS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

325131 INORGANIC DYE AND PIGMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing inorganic dyes and pigments.

325132 SYNTHETIC ORGANIC DYE AND PIGMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic organic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

325181 ALKALIES AND CHLORINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing chlorine, sodium hydroxide (i.e., caustic soda), and other alkalies often using an electrolysis process.

325182 CARBON BLACK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon black, bone black, and lamp black.

325188 ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases, inorganic dyes and pigments, alkalies and chlorine, and carbon black).

325191 GUM AND WOOD CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. distilling wood or gum into products, such as tall oil and wood distillates and
2. wood or gum chemicals, such as naval stores, natural tanning materials, charcoal briquettes, and charcoal (except activated).

325192 CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. distilling coal tars and/or
2. cyclic crudes or, cyclic intermediates (i.e., hydrocarbons, except aromatic petrochemicals) from refined petroleum or natural gas.

325193 ETHYL ALCOHOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonpotable ethyl alcohol.

325199 ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing basic organic chemical products (except aromatic petrochemicals, industrial gases, synthetic organic dyes and pigments, gum and wood chemicals, cyclic crudes and intermediates, and ethyl alcohol).

325211 PLASTICS MATERIAL AND RESIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or
2. noncustomized synthetic resins.

325212 SYNTHETIC RUBBER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic rubber.

325221 CELLULOSIC ORGANIC FIBER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or
2. manufacturing and texturizing cellulosic fibers and filaments.

325222 NONCELLULOSIC ORGANIC FIBER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow, or
2. manufacturing and texturizing noncellulosic fibers and filaments.

325311 NITROGENOUS FERTILIZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nitrogenous fertilizer materials and mixing ingredients into fertilizers;
2. fertilizers from sewage or animal waste; and
3. nitrogenous materials and mixing them into fertilizers.

325312 PHOSPHATIC FERTILIZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. phosphatic fertilizer materials or
2. phosphatic materials and mixing them into fertilizers.

325314 FERTILIZER (MIXING ONLY) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in mixing ingredients made elsewhere into fertilizers.

325320 PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

325411 MEDICINAL AND BOTANICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or
2. grading, grinding, and milling uncompounded botanicals.

325412 PHARMACEUTICAL PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing in-vivo diagnostic substances and pharmaceutical preparations (except biological) intended for internal and external consumption in dose forms, such as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325413 IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing in-vitro (i.e., not taken internally) diagnostic substances, such as chemical, biological, or radioactive substances. The substances are used for diagnostic tests that are performed in test tubes, petri dishes, machines, and other diagnostic test-type devices.

325414 BIOLOGICAL PRODUCT (EXCEPT DIAGNOSTIC) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vaccines, toxoids, blood fractions, and culture media of plant or animal origin (except diagnostic).

325510 PAINT AND COATING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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1. mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry and/or
 2. allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

325520 ADHESIVE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325611 SOAP AND OTHER DETERGENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents, dishwashing detergents, toothpaste gels and tooth powders and natural glycerin.

325612 POLISH AND OTHER SANITATION GOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging polishes and specialty cleaning preparations.

325613 SURFACE ACTIVE AGENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or
2. textiles and leather finishing agents used to reduce tension or speed the drying process.

325620 TOILET PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

325910 PRINTING INK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing printing and ink-jet inks and inkjet cartridges.

325920 EXPLOSIVES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing explosives.

325991 CUSTOM COMPOUNDING OF PURCHASED RESINS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. custom mixing and blending plastics resins made elsewhere or
2. reformulating plastics resins from recycled plastics products.

325992 PHOTOGRAPHIC FILM, PAPER, PLATE, AND CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sensitized film, sensitized paper, sensitized cloth, sensitized plates, toners (i.e., for photocopiers, laser printers, and similar electrostatic printing devices), toner cartridges, and photographic chemicals.

325998 ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, synthetic rubber; cellulosic and noncellulosic fiber and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings and adhesives; soap, cleaning compounds, and toilet preparations; printing inks; explosives; custom compounding of purchased resins; and photographic films, papers, plates, and chemicals).

326111 PLASTICS BAG MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. converting plastics resins into plastics bags or
2. forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags.

Establishments in this industry may print on the bags they manufacture.

326112 PLASTICS PACKAGING FILM AND SHEET (INCLUDING LAMINATED) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet.

326113 UNLAMINATED PLASTICS FILM AND SHEET (EXCEPT PACKAGING) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics film and un laminated sheet (except packaging).

326121 UNLAMINATED PLASTICS PROFILE SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

326122 PLASTICS PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

326130 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

326140 POLYSTYRENE FOAM PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

326150 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

326160 PLASTICS BOTTLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics bottles.

326191 PLASTICS PLUMBING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiber-glass plumbing fixtures. Examples of products made by these establishments are plastics or fiber-glass bathtubs, hot tubs, portable toilets, and shower stalls.

326192 RESILIENT FLOOR COVERING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing resilient floor coverings for permanent installation.

326199 ALL OTHER PLASTICS PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, bottles, plumbing fixtures, and resilient floor coverings).

326211 TIRE MANUFACTURING (EXCEPT RETREADING)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

326212 TIRE RETREADING

This U.S. industry comprises establishments primarily engaged in retreading or rebuilding tires.

326220 RUBBER AND PLASTICS HOSES AND BELTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

326291 RUBBER PRODUCT MANUFACTURING FOR MECHANICAL USE

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

326299 ALL OTHER RUBBER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

327111 VITREOUS CHINA PLUMBING FIXTURE AND CHINA AND EARTHENWARE BATHROOM ACCESSORIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

327112 VITREOUS CHINA, FINE EARTHENWARE, AND OTHER POTTERY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

327113 PORCELAIN ELECTRICAL SUPPLY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

327121 BRICK AND STRUCTURAL CLAY TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

327122 CERAMIC WALL AND FLOOR TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ceramic wall and floor tiles.

327123 OTHER STRUCTURAL CLAY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

327124 CLAY REFRACTORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay refractory, mortar, brick, block, tile, and fabricated clay refractories, such as melting pots. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

327125 NONCLAY REFRACTORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonclay refractory, mortar, brick, block, tile, and fabricated nonclay refractories such as graphite, magnesite, silica, or alumina crucibles. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

327211 FLAT GLASS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. flat glass by melting silica sand or cullet, or
2. both flat glass and laminated glass by melting silica sand or cullet.

327212 OTHER PRESSED AND BLOWN GLASS AND GLASSWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers).

327213 GLASS CONTAINER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing glass packaging containers.

327215 GLASS PRODUCT MANUFACTURING MADE OF PURCHASED GLASS

This U.S. industry comprises establishments primarily engaged in coating, laminating, tempering, or shaping purchased glass.

327310 CEMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

327320 READY-MIX CONCRETE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete delivered to a purchaser, such as batch plants or mix plants, in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

327331 CONCRETE BLOCK AND BRICK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

327332 CONCRETE PIPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

327390 OTHER CONCRETE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327410 LIME MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327420 GYPSUM PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

327910 ABRASIVE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

327991 CUT STONE AND STONE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

327992 GROUND OR TREATED MINERAL AND EARTH MANUFACTURING

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

327993 MINERAL WOOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

327999 ALL OTHER MISCELLANEOUS NONMETALLIC MINERAL PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

331111 IRON AND STEEL MILLS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. direct reduction of iron ore;
2. pig iron in molten or solid form;
3. converting pig iron into steel;
4. making steel;
5. making steel and shapes (e.g., bar, plate, rod, sheet, strip, wire); and
6. making steel and forming tube and pipe.

331112 ELECTROMETALLURGICAL FERROALLOY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electrometallurgical ferroalloys. Ferroalloys add critical elements, such as silicon and manganese for carbon steel and chromium, vanadium, tungsten, titanium, and molybdenum for low- and high-alloy metals. Ferroalloys include iron-rich alloys and more pure forms of elements added during the steel manufacturing process that alter or improve the characteristics of the metal being made.

331210 IRON AND STEEL PIPE AND TUBE MANUFACTURING FROM PURCHASED STEEL

This U.S. industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

331221 ROLLED STEEL SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in rolling or drawing shapes (except wire), such as plate, sheet, strip, rod, and bar, from purchased steel.

331222 STEEL WIRE DRAWING

This U.S. industry comprises establishments primarily engaged in drawing wire from purchased steel.

331311 ALUMINA REFINING

This U.S. industry comprises establishments primarily engaged in refining alumina (i.e., aluminum oxide) generally from bauxite.

331312 PRIMARY ALUMINUM PRODUCTION

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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1. making aluminum from alumina and/or
 2. making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, and strip).

Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

331314 SECONDARY SMELTING AND ALLOYING OF ALUMINUM

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or
2. alloys, powder, paste, or flake from purchased aluminum.

331315 ALUMINUM SHEET, PLATE, AND FOIL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. flat rolling or continuous casting sheet, plate, foil and welded tube from purchased aluminum and/or
2. recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

331316 ALUMINUM EXTRUDED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum and/or
2. recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

331319 OTHER ALUMINUM ROLLING AND DRAWING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. rolling, drawing, or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) from purchased aluminum and/or
2. recovering aluminum from scrap and rolling, drawing or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) in integrated mills.

331411 PRIMARY SMELTING AND REFINING OF COPPER

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. smelting copper ore and/or
2. the primary refining of copper by electrolytic methods or other processes.

Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

331419 PRIMARY SMELTING AND REFINING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. making (primary production) nonferrous metals by smelting ore and/or
2. the primary refining of nonferrous metals by electrolytic methods or other processes.

331421 COPPER ROLLING, DRAWING, AND EXTRUDING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube (except bare or insulated copper communication or energy wire)) from purchased copper and/or
2. recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube (except bare or insulated copper communication or energy wire)) in integrated mills.

331422 COPPER WIRE (EXCEPT MECHANICAL) DRAWING

This U.S. industry comprises establishments primarily engaged in drawing or drawing and insulating communication and energy wire and cable from purchased copper or in integrated secondary smelting and wire drawing plants.

331423 SECONDARY SMELTING, REFINING, AND ALLOYING OF COPPER

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. recovering copper and copper alloys from scrap and/or
2. alloying purchased copper.

Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

331491 NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, AND EXTRUDING

This U.S. industry comprises establishments primarily engaged in:

1. rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) from purchased nonferrous metals and/or
2. recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) in integrated mills.

331492 SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

This U.S. industry comprises establishments primarily engaged in:

1. alloying purchased nonferrous metals and/or
2. recovering nonferrous metals from scrap.

Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, and wire) using smelting or refining processes.

331511 IRON FOUNDRIES

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings (e.g., cast iron manhole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

331512 STEEL INVESTMENT FOUNDRIES

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

331513 STEEL FOUNDRIES (EXCEPT INVESTMENT)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

331521 ALUMINUM DIE-CASTING FOUNDRIES

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum die-castings. Establishments in this industry purchase aluminum made in other establishments.

331522 NONFERROUS (EXCEPT ALUMINUM) DIE-CASTING FOUNDRIES

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

331524 ALUMINUM FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

331525 COPPER FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

331528 OTHER NONFERROUS FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous (except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

332111 IRON AND STEEL FORGING

This U.S. industry comprises establishments primarily engaged in manufacturing iron and steel forgings from purchased iron and steel by hammering mill shapes. Establishments making iron and steel forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Iron and steel forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

332112 NONFERROUS FORGING

This U.S. industry comprises establishments primarily engaged in manufacturing nonferrous forgings from purchased nonferrous metals by hammering mill shapes. Establishments making nonferrous forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Nonferrous forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

332114 CUSTOM ROLL FORMING

This U.S. industry comprises establishments primarily engaged in custom roll forming metal products by use of rotary motion of rolls with various contours to bend or shape the products.

332115 CROWN AND CLOSURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

332116 METAL STAMPING

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

332117 POWDER METALLURGY PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

332211 CUTLERY AND FLATWARE (EXCEPT PRECIOUS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

332212 HAND AND EDGE TOOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

332213 SAW BLADE AND HANDSAW MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nonpowered handsaws and/or
2. saw blades, all types (including those for power sawing machines).

332214 KITCHEN UTENSIL, POT, AND PAN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

332311 PREFABRICATED METAL BUILDING AND COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated metal buildings, panels, and sections.

332312 FABRICATED STRUCTURAL METAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

332313 PLATE WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

332321 METAL WINDOW AND DOOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (typically using purchased glass) and metal doors. Examples of products made by these establishments are: metal door frames; metal framed window and door screens; and metal molding and trim (except automotive).

332322 SHEET METAL WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

332323 ORNAMENTAL AND ARCHITECTURAL METAL WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

332410 POWER BOILER AND HEAT EXCHANGER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

332420 METAL TANK (HEAVY GAUGE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332431 METAL CAN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

332439 OTHER METAL CONTAINER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

332510 HARDWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

332611 SPRING (HEAVY GAUGE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding, rod or strip stock.

332612 SPRING (LIGHT GAUGE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

332618 OTHER FABRICATED WIRE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

332710 MACHINE SHOPS

This U.S. industry comprises establishments primarily engaged in machining metal parts on a job or order basis (known as machine shops). Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332721 PRECISION TURNED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in machining precision products of all materials on a job or order basis (known as precision turned manufacturers). Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

332722 BOLT, NUT, SCREW, RIVET, AND WASHER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

332811 METAL HEAT TREATING

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

332812 METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. enameling, lacquering, and varnishing metals and metal products;
2. hot dip galvanizing metals and metal products;
3. engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates);
4. powder coating metals and metal products; and
5. providing other metal surfacing services for the trade.

332813 ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

332911 INDUSTRIAL VALVE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

332912 FLUID POWER VALVE AND HOSE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

332913 PLUMBING FIXTURE FITTING AND TRIM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

332919 OTHER METAL VALVE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

332991 BALL AND ROLLER BEARING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

332992 SMALL ARMS AMMUNITION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

332993 AMMUNITION (EXCEPT SMALL ARMS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

332994 SMALL ARMS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

332995 OTHER ORDNANCE AND ACCESSORIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

332996 FABRICATED PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in fabricating, such as cutting, threading, and bending metal pipes and pipe fittings made from purchased metal pipe.

332997 INDUSTRIAL PATTERN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

332998 ENAMELED IRON AND METAL SANITARY WARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

332999 ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

333111 FARM MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

333112 LAWN AND GARDEN TRACTOR AND HOME LAWN AND GARDEN EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

333120 CONSTRUCTION MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333131 MINING MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, and rock drills and
2. mineral beneficiating machinery and equipment used in surface or underground mines.

333132 OIL AND GAS FIELD MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks; and
2. water well drilling machinery.

333210 SAWMILL AND WOODWORKING MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

333220 PLASTICS AND RUBBER INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333291 PAPER INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

333292 TEXTILE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

333293 PRINTING MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, typesetting machinery, and bindery machinery.

333294 FOOD PRODUCT MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

333295 SEMICONDUCTOR MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

333298 ALL OTHER INDUSTRIAL MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

333311 AUTOMATIC VENDING MACHINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. coin, token, currency, or magnetic card operated vending machines; and/or
2. coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

333312 COMMERCIAL LAUNDRY, DRYCLEANING, AND PRESSING MACHINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

333313 OFFICE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mailhandling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

333314 OPTICAL INSTRUMENT AND LENS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. optical instruments and lens, such as binoculars, microscopes (except electron and proton), telescopes, prisms, and lenses (except ophthalmic);
2. coating or polishing lenses (except ophthalmic); and
3. mounting lenses (except ophthalmic).

333315 PHOTOGRAPHIC AND PHOTOCOPYING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, and digital), projectors, film developing equipment, photocopying equipment, and microfilm equipment.

333319 OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

333411 AIR PURIFICATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

333412 INDUSTRIAL AND COMMERCIAL FAN AND BLOWER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

333414 HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. air-conditioning (except motor vehicle) and warm air furnace equipment and/or
2. commercial and industrial refrigeration and freezer equipment.

333511 INDUSTRIAL MOLD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

333512 MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

333513 MACHINE TOOL (METAL FORMING TYPES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging, and die-casting machines.

333514 SPECIAL DIE AND TOOL, DIE SET, JIG, AND FIXTURE MANUFACTURING

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

333515 CUTTING TOOL AND MACHINE TOOL ACCESSORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

333516 ROLLING MILL MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

333518 OTHER METALWORKING MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

333611 TURBINE AND TURBINE GENERATOR SET UNITS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft) and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

333612 SPEED CHANGER, INDUSTRIAL HIGH-SPEED DRIVE, AND GEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

333613 MECHANICAL POWER TRANSMISSION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

333618 OTHER ENGINE EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

333911 PUMP AND PUMPING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps, and sump pumps.

333912 AIR AND GAS COMPRESSOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

333913 MEASURING AND DISPENSING PUMP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

333921 ELEVATOR AND MOVING STAIRWAY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

333922 CONVEYOR AND CONVEYING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

333923 OVERHEAD TRAVELING CRANE, HOIST, AND MONORAIL SYSTEM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

333924 INDUSTRIAL TRUCK, TRACTOR, TRAILER, AND STACKER MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type), such as forklifts, pallet loaders and unloaders, and portable loading docks.

333991 POWER-DRIVEN HANDTOOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, and pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

333992 WELDING AND SOLDERING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

333993 PACKAGING MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

333994 INDUSTRIAL PROCESS FURNACE AND OVEN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, and wood).

333995 FLUID POWER CYLINDER AND ACTUATOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

333996 FLUID POWER PUMP AND MOTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

333997 SCALE AND BALANCE (EXCEPT LABORATORY) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

333999 ALL OTHER MISCELLANEOUS GENERAL PURPOSE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

334111 ELECTRONIC COMPUTER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following:

1. store the processing program or programs and the data immediately necessary for the execution of the program;
2. can be freely programmed in accordance with the requirements of the user;
3. perform arithmetical computations specified by the user; and
4. execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run.

Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

334112 COMPUTER STORAGE DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

334113 COMPUTER TERMINAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

334119 OTHER COMPUTER PERIPHERAL EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

334210 TELEPHONE APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

334220 RADIO AND TELEVISION BROADCASTING AND WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334290 OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

334310 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

334411 ELECTRON TUBE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

334412 BARE PRINTED CIRCUIT BOARD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

334413 SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells and other optoelectronic devices.

334414 ELECTRONIC CAPACITOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

334415 ELECTRONIC RESISTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors.

334416 ELECTRONIC COIL, TRANSFORMER, AND OTHER INDUCTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

334417 ELECTRONIC CONNECTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial; cylindrical; rack and panel; pin and sleeve; printed circuit; and fiber optic.

334418 PRINTED CIRCUIT ASSEMBLY (ELECTRONIC ASSEMBLY) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

334419 OTHER ELECTRONIC COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers, and other inductors; connectors; and loaded printed circuit boards).

334510 ELECTROMEDICAL AND ELECTROTHERAPEUTIC APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

334511 SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

334512 AUTOMATIC ENVIRONMENTAL CONTROL MANUFACTURING FOR RESIDENTIAL, COMMERCIAL, AND APPLIANCE USE

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration, and appliances.

334513 INSTRUMENTS AND RELATED PRODUCTS MANUFACTURING FOR MEASURING, DISPLAYING, AND CONTROLLING INDUSTRIAL PROCESS VARIABLES

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display, or control (i.e., monitor and analyze) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

334514 TOTALIZING FLUID METER AND COUNTING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

334515 INSTRUMENT MANUFACTURING FOR MEASURING AND TESTING ELECTRICITY AND ELECTRICAL SIGNALS

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

334516 ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

334517 IRRADIATION APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, and research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

334518 WATCH, CLOCK, AND PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling: clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

334519 OTHER MEASURING AND CONTROLLING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

334611 SOFTWARE REPRODUCING

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software, they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

334612 PRERECORDED COMPACT DISC (EXCEPT SOFTWARE), TAPE, AND RECORD REPRODUCING

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

334613 MAGNETIC AND OPTICAL RECORDING MEDIA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

335110 ELECTRIC LAMP BULB AND PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335121 RESIDENTIAL ELECTRIC LIGHTING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

335122 COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL ELECTRIC LIGHTING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

335129 OTHER LIGHTING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

335211 ELECTRIC HOUSEWARES AND HOUSEHOLD FAN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

335212 HOUSEHOLD VACUUM CLEANER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

335221 HOUSEHOLD COOKING APPLIANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

335222 HOUSEHOLD REFRIGERATOR AND HOME FREEZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

335224 HOUSEHOLD LAUNDRY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

335228 OTHER MAJOR HOUSEHOLD APPLIANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

335311 POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

335312 MOTOR AND GENERATOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

335313 SWITCHGEAR AND SWITCHBOARD APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

335314 RELAY AND INDUSTRIAL CONTROL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

335911 STORAGE BATTERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

335912 PRIMARY BATTERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

335921 FIBER OPTIC CABLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

335929 OTHER COMMUNICATION AND ENERGY WIRE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

335931 CURRENT-CARRYING WIRING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

335932 NONCURRENT-CARRYING WIRING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

335991 CARBON AND GRAPHITE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

335999 ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

336111 AUTOMOBILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete automobiles (i.e., body and chassis or unibody) or
2. automobile chassis only.

336112 LIGHT TRUCK AND UTILITY VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete light trucks and utility vehicles (i.e., body and chassis) or
2. light truck and utility vehicle chassis only.

Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

336120 HEAVY DUTY TRUCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special purpose heavy duty motor vehicles for highway use or
2. heavy duty truck chassis only.

336211 MOTOR VEHICLE BODY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

336212 TRUCK TRAILER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

336213 MOTOR HOME MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. motor homes on purchased chassis and/or
2. conversion vans on an assembly line basis.

Motor homes are units where the motor and the living quarters are integrated in the same unit.

336214 TRAVEL TRAILER AND CAMPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. travel trailers and campers designed to attach to motor vehicles;
2. pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and
3. automobile, utility, and light-truck trailers.

Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

336311 CARBURETOR, PISTON, PISTON RING, AND VALVE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

336312 GASOLINE ENGINE AND ENGINE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

336321 VEHICULAR LIGHTING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

336322 OTHER MOTOR VEHICLE ELECTRICAL AND ELECTRONIC EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

336330 MOTOR VEHICLE STEERING AND SUSPENSION COMPONENTS (EXCEPT SPRING) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336340 MOTOR VEHICLE BRAKE SYSTEM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336350 MOTOR VEHICLE TRANSMISSION AND POWER TRAIN PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336360 MOTOR VEHICLE SEATING AND INTERIOR TRIM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336370 MOTOR VEHICLE METAL STAMPING

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336391 MOTOR VEHICLE AIR-CONDITIONING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

336399 ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

336411 AIRCRAFT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing or assembling complete aircraft;
2. developing and making aircraft prototypes;
3. aircraft conversion (i.e., major modifications to systems); and
4. complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336412 AIRCRAFT ENGINE AND ENGINE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. aircraft engines and engine parts;
2. developing and making prototypes of aircraft engines and engine parts;
3. aircraft propulsion system conversion (i.e., major modifications to systems); and
4. aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

336413 OTHER AIRCRAFT PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or
2. developing and making prototypes of aircraft parts and auxiliary equipment.

Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

336414 GUIDED MISSILE AND SPACE VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete guided missiles and space vehicles and/or
2. developing and making prototypes of guided missile or space vehicles.

336415 GUIDED MISSILE AND SPACE VEHICLE PROPULSION UNIT AND PROPULSION UNIT PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. guided missile and/or space vehicle propulsion units and propulsion unit parts and/or
2. developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

336419 OTHER GUIDED MISSILE AND SPACE VEHICLE PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or
2. developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

336510 RAILROAD ROLLING STOCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336611 SHIP BUILDING AND REPAIRING

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336612 BOAT BUILDING

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

336991 MOTORCYCLE, BICYCLE, AND PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment, and parts.

336992 MILITARY ARMORED VEHICLE, TANK, AND TANK COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

336999 ALL OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, and armored vehicles and tanks).

337110 WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337121 UPHOLSTERED HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

337122 NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337124 METAL HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337125 HOUSEHOLD FURNITURE (EXCEPT WOOD AND METAL) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed, rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337127 INSTITUTIONAL FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337129 WOOD TELEVISION, RADIO, AND SEWING MACHINE CABINET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

337211 WOOD OFFICE FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337212 CUSTOM ARCHITECTURAL WOODWORK AND MILLWORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and

requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

337214 OFFICE FURNITURE (EXCEPT WOOD) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337215 SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

337910 MATTRESS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337920 BLIND AND SHADE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. venetian blinds, other window blinds, shades;
2. curtain and drapery rods, poles; and/or
3. curtain and drapery fixtures.

The blinds and shades may be made on a stock or custom basis and may be made of any material.

339111 LABORATORY APPARATUS AND FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

For this industry, the 1997 Economic Census did not fully implement the conversion to the North American Industry Classification System (NAICS). The data from 1997 to 2001 for NAICS industry 339111 did not include establishments primarily engaged in the manufacture of hospital beds and other hospital furniture. These establishments are included in the 2002 Economic Census data.

339112 SURGICAL AND MEDICAL INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electro-medical and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

339113 SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

339114 DENTAL EQUIPMENT AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material and dental cements.

339115 OPHTHALMIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, reading glasses made to standard powers, and protective eyewear.

339116 DENTAL LABORATORIES

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

339911 JEWELRY (EXCEPT COSTUME) MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one of the following:

1. manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry;
2. manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and
3. stamping coins.

339912 SILVERWARE AND HOLLOWWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other hollowware.

339913 JEWELERS' MATERIAL AND LAPIDARY WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing;
2. cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems;
3. recutting, repolishing, and setting gem stones; and
4. drilling, sawing, and peeling cultured pearls.

339914 COSTUME JEWELRY AND NOVELTY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing, engraving, chasing, and etching costume jewelry; and/or
2. manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases).

This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

339920 SPORTING AND ATHLETIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339931 DOLL AND STUFFED TOY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes; action figures; and stuffed toys.

339932 GAME, TOY, AND CHILDREN'S VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

339941 PEN AND MECHANICAL PENCIL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

339942 LEAD PENCIL AND ART GOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

339943 MARKING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

339944 CARBON PAPER AND INKED RIBBON MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

339950 SIGN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, and displays).

339991 GASKET, PACKING, AND SEALING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

339992 MUSICAL INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

339993 FASTENER, BUTTON, NEEDLE, AND PIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

339994 BROOM, BRUSH, AND MOP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

339995 BURIAL CASKET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

339999 ALL OTHER MISCELLANEOUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

Appendix C.

Methodology

SOURCES OF THE DATA

The manufacturing sector includes approximately 350,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing. The amount of information requested from manufacturing establishments was dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the Annual Survey of Manufactures (ASM).

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:
 - a. ASM sample establishments. This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments, as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-10000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A. Explanation of Terms, for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 473 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries, as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in certain cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not listed on the form.

A wide variety of special inquiries were included to measure activities peculiar to a given industry, such as operations performed and equipment used.

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- b. Large and medium establishments (non-ASM). Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census — manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
 - c. Small single-establishment companies (non-ASM). This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated “short form” was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics, because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the “not specified by kind” (nsk) categories.

2. Establishments not sent a report form:

- a. Small single-establishment companies not sent a report form. Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and the Census Bureau’s ability to assign the correct six-digit NAICS industry classification to the establishment. For each six-digit NAICS industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report that requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments, but were included in the product and material “not specified by kind” (nsk) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit NAICS group classification codes available in the files. For manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics, other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

- b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees, during 2002 are excluded as in previous censuses. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments covered in the 2002 Economic Census — Manufacturing are classified in 1 of 473 industries in accordance with the industry definitions in the *North American Industry Classification System (NAICS), United States, 2002* manual. There were no changes between the 2002 edition and the 1997 edition affecting this sector. When applicable, Appendix F of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 2002, there are 21 sub-sectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are 1,450 product classes (seven-digit codes), 5,674 census products, and an additional 3,746 ten-digit product codes. The ten-digit products are considered the primary products of the industry with the same first six digits.

For the 2002 Economic Census — Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 2002, there were no “resistance rules” or “frozen industries.”

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments that may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The 2002 Economic Census — Manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports, if the plant records permit such a separation and if the activities are substantial in size.

In 2002, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures, except for data on number of establishments for a few industries.

The 2002 Economic Census — Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The ASM sample is selected at 5-year intervals. A new sample is introduced for the second survey year subsequent to each census. Since 1999 was the second survey year following the 1997 census, a new sample was selected based on the 1997 census.

In 1997, both the Census and ASM converted from the SIC system to NAICS for purposes of assigning industrial classifications to establishments. For the most part, the overall scope of the manufacturing sector is similar under both classification systems; however, there are selected activities that are classified as manufacturing under SIC that are considered as nonmanufacturing under NAICS. The reverse is also true.

In 1997, there were approximately 366,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1997 manufacturing population was partitioned into two components: a mail stratum and a nonmail stratum.

1. Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 200,000 of the 366,000 establishments in the 1997 census were assigned to the mail stratum.

On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1999 survey, a new sample of approximately 52,000 individual establishments was selected from the mail stratum assembled from the 1997 census. Supplemental samples representing both 1998 and 1999 births (newly active establishments that were not included in the 1997 census) were also selected. Establishments selected for the sample will be mailed an ASM survey questionnaire for each year through 2003.

The 1999–2003 ASM sample design is similar to the one used since 1984. Several adjustments were made, however, to the arbitrary certainty portion of the sample. Companies in the 1997 Census of Manufactures with manufacturing shipments of at least \$1 billion were defined as company certainties. (This cutoff was raised for 1999 to compensate for inflation.) For these large companies, each manufacturing establishment is included in the mail sample. For the 1999–2003 sample, there are approximately 500 certainty companies collectively accounting for over 14,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 500 employees or more were defined as employment certainties. (This was raised from 250 in the 1994 sample.) In addition, all establishments producing electronic computers were defined as certainties. A final certainty category, small industry certainties, was added for the 1999 sample. This category assured that all establishments of small industries (20 establishments or less) were included in the sample. Across these four arbitrary certainty classes, there were approximately 16,600 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 62 percent of the total value of shipments in the 1997 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1997 industry classification and its 1997 product class data. For each product class and industry, a desired reliability constraint was specified. The product class constraints were based on product class size (1997shipments) while the industry constraints were a function of both current size (1997shipments) and change in size since 1992. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling).

2. Nonmail stratum. The initial nonmail component of the ASM traditionally consists solely of small, single-establishment companies from the census of manufactures. For 1999, the initial nonmail component also included approximately 3,600 single-establishment companies that were rotated from the mail stratum to the nonmail stratum in order to prevent their selection in consecutive sample panels. The combined initial nonmail component of the 1999 sample universe contained approximately 166,000 single establishment companies from the 1997 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the IRS and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum.

For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions that safeguard the confidentiality of both tax and census records.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census. The following are two ways that further explain this method:

1. **ASM Estimating Procedure.** Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1997 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the “difference” between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1998–2002 ASM estimates, the 1997 Economic Census — Manufacturing values serve as the base year. For the 2003 ASM, the base will be updated to be the 2002 Economic Census — Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contained approximately 170,000 individual establishments in 1999, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

2. **ASM Data Qualifications.** The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists, but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

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- From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
 - From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 2002 Economic Census — Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for the industry statistics files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which can be suppressed even though value of shipments data are published.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.

