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2002 Economic Census

Manufacturing

Geographic Area Series



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U.S. Department of Commerce

Carlos M. Gutierrez,

Secretary

David A. Sampson,

Deputy Secretary

Economics and Statistics Administration

Kathleen B. Cooper,

Under Secretary for
Economic Affairs

U.S. CENSUS BUREAU

Charles Louis Kincannon,

Director



**Economics
and Statistics
Administration**

Kathleen B. Cooper,
Under Secretary
for Economic Affairs



U.S. CENSUS BUREAU

Charles Louis Kincannon,
Director

Hermann Habermann,
Deputy Director and
Chief Operating Officer

Thomas L. Mesenbourg,
Associate Director
for Economic Programs

Thomas L. Mesenbourg,
Acting Assistant Director
for Economic Programs

William G. Bostic, Jr.,
Chief, Manufacturing
and Construction Division

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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-Herschmann 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.

ZIP Code Statistics. This report contains statistics on the number of establishments for the three- and six-digit NAICS industry by employment-size of the establishment by ZIP Code.

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. A core based statistical areas (CBSA) contains 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 have been several additional data tables added, which did not exist in 1997. These tables for 2002 include products primary to more than one industry, industry-product analysis, e-commerce value of shipments, and leased and nonleased detail employment statistics by subsectors.

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. Industry Statistics for the State: 2002

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE													
31-33	Manufacturing	1	2 213	713	83 545	3 421 148	53 985	106 263	1 693 399	18 527 926	6 758 241	15 235 144	539 919
311	Food manufacturing	2	94	19	1 634	56 472	1 168	2 091	32 916	176 547	284 420	453 942	11 141
3113	Sugar and confectionery product manufacturing	9	8	2	e	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans	9	2	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans	9	2	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	-	7	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	-	6	2	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	-	5	2	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	-	9	4	358	13 391	249	441	6 152	24 778	76 595	101 028	1 471
31171	Seafood product preparation and packaging	-	9	4	358	13 391	249	441	6 152	24 778	76 595	101 028	1 471
311712	Fresh and frozen seafood processing	-	8	4	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	4	50	5	384	8 532	261	453	5 368	23 047	17 285	40 380	D
31181	Bread and bakery product manufacturing	3	46	4	e	D	D	D	D	D	D	D	D
311811	Retail bakeries	5	34	3	213	3 202	118	155	1 635	5 960	2 921	8 881	D
311813	Frozen cakes, pies, and other pastries manufacturing	-	2	1	c	D	D	D	D	D	D	D	D
3119	Other food manufacturing	-	14	3	113	3 826	87	164	2 605	26 134	37 006	63 192	122
312	Beverage and tobacco product manufacturing	-	13	7	810	32 809	603	1 060	20 669	341 763	237 504	576 925	53 388
3121	Beverage manufacturing	-	13	7	810	32 809	603	1 060	20 669	341 763	237 504	576 925	53 388
31211	Soft drink and ice manufacturing	-	7	5	e	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing	-	2	2	c	D	D	D	D	D	D	D	D
31212	Breweries	-	4	2	f	D	D	D	D	D	D	D	D
312120	Breweries	-	4	2	f	D	D	D	D	D	D	D	D
313	Textile mills	-	28	14	1 874	62 521	1 351	2 630	32 775	100 617	118 503	229 123	13 882
3131	Fiber, yarn, and thread mills	-	3	1	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, and thread mills	-	3	1	e	D	D	D	D	D	D	D	D
313113	Thread mills	-	3	1	e	D	D	D	D	D	D	D	D
3132	Fabric mills	-	19	11	1 489	53 250	1 013	1 992	26 268	84 520	99 018	194 093	D
31321	Broadwoven fabric mills	2	7	4	342	7 307	233	440	5 389	8 779	21 779	35 102	D
313210	Broadwoven fabric mills	2	7	4	342	7 307	233	440	5 389	8 779	21 779	35 102	D
31322	Narrow fabric mills and schiffli machine embroidery	-	6	3	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	-	5	3	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills	-	3	2	242	9 107	188	371	5 881	20 463	23 001	44 316	D
313249	Other knit fabric and lace mills	-	3	2	242	9 107	188	371	5 881	20 463	23 001	44 316	D
3133	Textile and fabric finishing and fabric coating mills	1	6	2	c	D	D	D	D	D	D	D	D
314	Textile product mills	7	52	6	1 045	32 873	739	1 505	23 058	69 051	82 947	153 783	1 945
3141	Textile furnishings mills	6	22	3	337	9 005	263	514	5 806	19 100	40 040	59 802	649
31411	Carpet and rug mills	9	2	1	c	D	D	D	D	D	D	D	D
314110	Carpet and rug mills	9	2	1	c	D	D	D	D	D	D	D	D
31412	Curtain and linen mills	1	20	2	c	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	6	2	150	4 040	104	193	2 026	7 712	10 720	19 025	248
3149	Other textile product mills	8	30	3	708	23 868	476	991	17 252	49 951	42 907	93 981	1 296
31491	Textile bag and canvas mills	4	17	1	c	D	D	D	D	D	D	D	D
31499	All other textile product mills	9	13	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	9	13	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing	-	33	9	806	29 814	493	854	8 999	39 946	37 335	77 641	D
3152	Cut and sew apparel manufacturing	-	28	9	772	29 039	466	801	8 457	38 102	35 934	74 505	D
31521	Cut and sew apparel contractors	1	16	2	c	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	1	12	2	165	10 035	45	87	688	5 561	700	5 621	D
31522	Men's and boys' cut and sew apparel manufacturing	-	8	6	538	17 684	371	629	6 864	29 322	33 755	64 234	D
315225	Men's and boys' cut and sew work clothing manufacturing	-	1	1	e	D	D	D	D	D	D	D	D

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NEW HAMPSHIRE—Con.													
316	Leather and allied product manufacturing	-	17	7	476	12 483	332	717	7 219	35 523	50 648	88 407	683
3161	Leather and hide tanning and finishing.....	-	4	3	c	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing.....	-	4	3	c	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing.....	-	4	3	c	D	D	D	D	D	D	D	D
3162	Footwear manufacturing	-	7	3	236	5 131	150	346	3 090	15 070	25 804	41 451	247
31621	Footwear manufacturing	-	7	3	236	5 131	150	346	3 090	15 070	25 804	41 451	247
316211	Rubber and plastics footwear manufacturing	-	6	3	c	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	161	58	4 003	121 749	3 081	6 233	81 009	265 827	367 759	629 357	20 902
3211	Sawmills and wood preservation .	3	60	21	1 215	38 099	1 018	2 135	30 093	80 283	172 600	248 732	14 018
32111	Sawmills and wood preservation	3	60	21	1 215	38 099	1 018	2 135	30 093	80 283	172 600	248 732	14 018
321113	Sawmills	3	57	20	1 176	37 065	987	2 078	29 392	79 323	170 254	245 426	D
3219	Other wood product manufacturing	2	97	36	2 737	81 770	2 030	4 029	49 790	177 077	185 208	362 207	6 678
32191	Millwork.....	1	33	12	1 127	33 415	806	1 517	18 625	73 240	101 030	173 163	3 321
321911	Wood window and door manufacturing	-	8	2	383	13 068	171	329	3 836	23 619	36 075	59 874	290
321912	Cut stock, resawing lumber, and planing	-	10	6	251	7 586	208	421	5 378	25 019	42 133	66 972	1 840
321918	Other millwork (including flooring)	3	15	4	493	12 761	427	767	9 411	24 602	22 822	46 317	1 191
32192	Wood container and pallet manufacturing	2	17	5	259	6 177	212	445	4 634	12 177	11 018	23 437	675
321920	Wood container and pallet manufacturing	2	17	5	259	6 177	212	445	4 634	12 177	11 018	23 437	675
32199	All other wood product manufacturing	2	47	19	1 351	42 178	1 012	2 067	26 531	91 660	73 160	165 607	2 682
321992	Prefabricated wood building manufacturing	3	16	8	754	25 064	533	1 108	15 053	57 776	46 908	104 434	1 718
321999	All other miscellaneous wood product manufacturing	2	31	11	597	17 114	479	959	11 478	33 884	26 252	61 173	964
322	Paper manufacturing	1	35	20	2 125	91 610	1 515	3 104	53 079	231 163	263 605	511 266	36 066
3221	Pulp, paper, and paperboard mills	2	8	6	f	D	D	D	D	D	D	D	8 156
32212	Paper mills	2	7	5	847	42 330	558	1 126	23 758	107 256	119 976	242 559	D
322121	Paper (except newsprint) mills	2	7	5	847	42 330	558	1 126	23 758	107 256	119 976	242 559	D
32213	Paperboard mills	-	1	1	c	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	c	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	27	14	g	D	D	D	D	D	D	D	27 910
32221	Paperboard container manufacturing	2	11	5	542	18 403	441	924	12 889	36 789	51 149	87 456	D
322211	Corrugated and solid fiber box manufacturing	7	7	2	131	5 006	94	202	2 720	10 853	14 619	25 356	D
322212	Folding paperboard box manufacturing	-	4	3	411	13 397	347	722	10 169	25 936	36 530	62 100	D
32222	Paper bag and coated and treated paper manufacturing ..	1	8	6	e	D	D	D	D	D	D	D	2 001
322221	Coated and laminated packaging paper and plastics film manufacturing ..	-	1	1	c	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing	-	6	4	285	13 361	169	321	5 754	31 868	46 730	79 435	D
32229	Other converted paper product manufacturing	-	5	2	c	D	D	D	D	D	D	D	D
323	Printing and related support activities	-	210	46	4 039	145 943	2 845	5 632	92 308	357 116	194 726	553 268	30 369
3231	Printing and related support activities	-	210	46	4 039	145 943	2 845	5 632	92 308	357 116	194 726	553 268	30 369
32311	Printing	-	191	41	3 753	135 350	2 660	5 294	85 363	337 706	190 733	529 741	29 255
323110	Commercial lithographic printing	-	85	21	1 839	74 552	1 322	2 675	47 109	153 088	88 928	242 685	22 550
323112	Commercial flexographic printing	-	5	4	560	17 383	330	661	10 456	62 046	24 664	85 688	870
323113	Commercial screen printing..	-	33	6	516	17 697	381	798	11 003	47 668	38 895	85 398	3 898
323114	Quick printing	5	43	1	183	4 569	120	181	2 720	10 282	4 282	14 558	270
323115	Digital printing	-	7	4	144	4 863	99	176	2 881	10 001	3 006	12 937	957
323116	Manifold business forms printing	1	5	2	265	8 989	225	472	6 729	31 106	25 374	56 350	207
323118	Blankbook, looseleaf binders, and devices manufacturing ..	-	2	2	c	D	D	D	D	D	D	D	D
32312	Support activities for printing ..	3	19	5	286	10 593	185	338	6 945	19 410	3 993	23 527	1 114
323122	Prepress services	4	12	2	192	8 164	110	200	5 282	14 360	2 894	17 380	987

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NEW HAMPSHIRE—Con.													
324	Petroleum and coal products manufacturing	—	10	2	175	3 909	149	173	2 500	21 032	25 185	44 887	1 105
3241	Petroleum and coal products manufacturing	—	10	2	175	3 909	149	173	2 500	21 032	25 185	44 887	1 105
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	9	2	c	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing	—	9	2	c	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	56	19	1 996	89 145	1 125	2 213	37 239	234 442	145 441	381 493	10 052
3251	Basic chemical manufacturing ...	1	5	2	115	6 695	68	148	3 757	17 718	9 220	27 698	550
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	—	7	3	213	7 510	141	289	2 742	15 749	21 038	37 891	455
32521	Resin and synthetic rubber manufacturing	—	7	3	213	7 510	141	289	2 742	15 749	21 038	37 891	455
325211	Plastics material and resin manufacturing	—	6	3	c	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	—	6	5	929	41 117	477	895	16 039	97 356	41 651	138 499	D
32541	Pharmaceutical and medicine manufacturing	—	6	5	929	41 117	477	895	16 039	97 356	41 651	138 499	D
325412	Pharmaceutical preparation manufacturing	—	4	4	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	4	12	4	262	10 948	165	296	5 005	44 353	28 555	73 244	951
32551	Paint and coating manufacturing	4	5	2	125	5 516	80	132	2 653	23 632	14 605	39 196	531
325510	Paint and coating manufacturing	4	5	2	125	5 516	80	132	2 653	23 632	14 605	39 196	531
32552	Adhesive manufacturing	5	7	2	137	5 432	85	164	2 352	20 721	13 950	34 048	420
325520	Adhesive manufacturing	5	7	2	137	5 432	85	164	2 352	20 721	13 950	34 048	420
3259	Other chemical product and preparation manufacturing	3	16	3	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	2	12	3	343	17 661	187	408	7 205	34 304	32 966	67 274	D
325992	Photographic film, paper, plate, and chemical manufacturing	1	2	1	c	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .	3	7	2	c	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	105	49	5 961	207 046	4 482	8 954	133 009	'472 289	381 730	'855 945	29 115
3261	Plastics product manufacturing ..	1	87	44	5 251	182 475	3 949	7 836	118 033	'417 250	343 514	'760 385	25 728
32611	Plastics packaging materials and un laminated film and sheet manufacturing	—	8	6	359	15 529	232	498	8 968	34 958	39 672	74 880	D
326111	Plastics bag manufacturing ..	—	3	3	162	7 922	113	233	5 013	13 820	24 401	38 422	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing	—	4	2	c	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing	'2	'8	'3	'201	'6 188	'119	'273	'3 355	'14 741	'10 664	'25 574	'273
326121	Un laminated plastics profile shape manufacturing	—	4	3	180	5 524	102	240	2 900	12 839	7 085	20 093	88
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing	1	4	4	420	14 385	303	541	9 799	23 150	26 718	50 272	980
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing ..	1	4	4	420	14 385	303	541	9 799	23 150	26 718	50 272	980
32616	Plastics bottle manufacturing ..	—	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
326160	Plastics bottle manufacturing	—	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
32619	Other plastics product manufacturing	1	'52	'21	h	D	D	D	D	D	D	D	'15 775
326199	All other plastics product manufacturing	1	'51	'21	'3 513	'117 514	'2 696	'5 266	'73 858	'226 040	'177 850	'402 736	'15 775
3262	Rubber product manufacturing ...	5	18	5	710	24 571	533	1 118	14 976	55 039	38 216	95 560	3 387
32622	Rubber and plastics hoses and belting manufacturing	5	4	3	295	8 739	241	520	5 960	24 980	18 072	42 202	1 900
326220	Rubber and plastics hoses and belting manufacturing ..	5	4	3	295	8 739	241	520	5 960	24 980	18 072	42 202	1 900
32629	Other rubber product manufacturing	4	11	2	e	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use	2	5	2	358	13 687	246	506	7 556	24 252	11 547	35 698	D

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NEW HAMPSHIRE—Con.													
327	Nonmetallic mineral product manufacturing	—	83	31	2 351	90 794	1 751	3 588	58 737	283 071	186 885	469 465	18 320
3271	Clay product and refractory manufacturing	1	8	2	c	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	—	17	3	636	25 396	442	973	14 643	73 346	43 628	117 377	3 962
32721	Glass and glass product manufacturing	—	17	3	636	25 396	442	973	14 643	73 346	43 628	117 377	3 962
327212	Other pressed and blown glass and glassware manufacturing	—	5	1	c	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	12	2	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	33	16	904	34 282	696	1 393	23 228	85 827	58 928	142 962	9 537
32732	Ready-mix concrete manufacturing	1	17	8	387	15 604	294	644	10 877	42 715	34 270	75 746	7 239
327320	Ready-mix concrete manufacturing	1	17	8	387	15 604	294	644	10 877	42 715	34 270	75 746	7 239
32739	Other concrete product manufacturing	—	12	7	480	17 342	374	689	11 446	40 366	22 449	62 256	2 144
327390	Other concrete product manufacturing	—	12	7	480	17 342	374	689	11 446	40 366	22 449	62 256	2 144
3274	Lime and gypsum product manufacturing	—	3	2	c	D	D	D	D	D	D	D	D
32742	Gypsum product manufacturing	—	3	2	c	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing	—	3	2	c	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	—	22	8	503	19 106	361	707	10 950	44 098	28 201	72 271	2 900
32791	Abrasive product manufacturing	1	5	4	176	6 538	129	239	3 650	15 698	9 891	26 013	221
327910	Abrasive product manufacturing	1	5	4	176	6 538	129	239	3 650	15 698	9 891	26 013	221
32799	All other nonmetallic mineral product manufacturing	—	17	4	327	12 568	232	468	7 300	28 400	18 310	46 258	2 679
327991	Cut stone and stone product manufacturing	—	9	2	c	D	D	D	D	D	D	D	D
327999	All other miscellaneous nonmetallic mineral product manufacturing	—	7	2	192	6 860	129	252	3 613	15 412	11 811	26 982	854
331	Primary metal manufacturing	—	28	18	2 798	102 468	2 078	3 775	73 764	'201 060	137 583	'341 347	10 515
3313	Alumina and aluminum production and processing	—	6	4	444	15 684	343	724	11 798	32 517	64 995	97 105	D
33131	Alumina and aluminum production and processing ...	—	6	4	444	15 684	343	724	11 798	32 517	64 995	97 105	D
331314	Secondary smelting and alloying of aluminum	—	1	1	c	D	D	D	D	D	D	D	D
331319	Other aluminum rolling and drawing	—	3	2	c	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing	—	4	2	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying	—	3	2	322	12 247	258	488	8 721	30 137	33 954	64 194	D
331422	Copper wire (except mechanical) drawing	—	3	2	322	12 247	258	488	8 721	30 137	33 954	64 194	D
3315	Foundries	—	17	11	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	3	3	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	—	2	2	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	14	8	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	—	8	5	576	18 739	454	975	12 443	'48 648	11 236	'59 092	1 814
332	Fabricated metal product manufacturing	1	439	113	11 305	412 434	8 644	16 771	271 434	987 628	527 102	1 517 700	48 732
3321	Forging and stamping	7	19	4	414	15 491	318	627	9 596	30 091	21 972	52 010	1 752
33211	Forging and stamping	7	19	4	414	15 491	318	627	9 596	30 091	21 972	52 010	1 752
332116	Metal stamping	7	12	4	365	13 659	282	559	8 310	26 519	19 275	45 808	1 663
3322	Cutlery and handtool manufacturing	7	8	4	290	9 311	234	428	6 599	20 710	9 837	30 655	D
33221	Cutlery and handtool manufacturing	7	8	4	290	9 311	234	428	6 599	20 710	9 837	30 655	D
332212	Hand and edge tool manufacturing	7	7	4	e	D	D	D	D	D	D	D	517

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NEW HAMPSHIRE—Con.													
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing	1	84	29	2 167	74 378	1 657	3 169	48 571	173 348	134 088	310 869	6 095
33231	Plate work and fabricated structural product manufacturing	1	29	12	1 186	36 116	912	1 812	23 102	85 313	73 407	161 790	3 368
332311	Prefabricated metal building and component manufacturing	—	4	1	420	10 962	354	762	7 274	18 757	23 963	42 161	373
332312	Fabricated structural metal manufacturing	1	20	10	700	22 574	506	939	14 095	61 935	46 191	111 755	2 851
33232	Ornamental and architectural metal products manufacturing	1	55	17	981	38 262	745	1 357	25 469	88 035	60 681	149 079	2 727
332322	Sheet metal work manufacturing	1	39	14	786	32 240	590	1 120	21 742	72 562	49 247	122 275	1 792
332323	Ornamental and architectural metal work manufacturing ..	1	15	3	c	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing	—	5	2	246	10 562	172	350	5 625	21 561	18 454	41 185	D
33241	Power boiler and heat exchanger manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing ..	—	2	1	c	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
3325	Hardware manufacturing	5	3	2	243	9 255	193	401	6 180	18 498	9 169	27 605	D
33251	Hardware manufacturing	5	3	2	243	9 255	193	401	6 180	18 498	9 169	27 605	D
332510	Hardware manufacturing	5	3	2	243	9 255	193	401	6 180	18 498	9 169	27 605	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	231	40	2 506	100 020	1 868	3 715	68 302	198 053	70 907	269 371	15 125
33271	Machine shops	4	200	28	1 747	70 416	1 284	2 514	47 634	137 552	52 204	189 726	7 393
332710	Machine shops	4	200	28	1 747	70 416	1 284	2 514	47 634	137 552	52 204	189 726	7 393
33272	Turned product and screw, nut, and bolt manufacturing	—	31	12	759	29 604	584	1 201	20 668	60 501	18 703	79 645	7 732
332721	Precision turned product manufacturing	—	24	7	559	22 114	446	905	16 257	46 812	11 905	58 877	6 519
332722	Bolt, nut, screw, rivet, and washer manufacturing	—	7	5	200	7 490	138	296	4 411	13 689	6 798	20 768	1 213
3328	Coating, engraving, heat treating, and allied activities	3	39	6	319	11 225	241	469	7 290	24 653	5 908	30 271	D
33281	Coating, engraving, heat treating, and allied activities ..	3	39	6	319	11 225	241	469	7 290	24 653	5 908	30 271	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	2	20	4	179	6 786	148	273	4 677	16 403	3 884	20 004	D
332813	Electroplating, plating, polishing, anodizing, and coloring	3	17	1	c	D	D	D	D	D	D	D	238
3329	Other fabricated metal product manufacturing	—	45	25	5 068	180 163	3 925	7 546	118 241	497 533	254 659	750 390	22 046
33291	Metal valve manufacturing	—	12	8	1 100	38 752	786	1 648	17 862	126 678	103 517	233 100	6 100
332911	Industrial valve manufacturing	—	7	4	679	24 391	500	1 082	11 888	93 393	71 198	167 744	3 812
332912	Fluid power valve and hose fitting manufacturing	—	2	2	c	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	33	17	3 968	141 411	3 139	5 898	100 379	370 855	151 142	517 290	15 946
332991	Ball and roller bearing manufacturing	—	4	4	g	D	D	D	D	D	D	D	D
332994	Small arms manufacturing...	—	4	4	1 446	47 104	1 289	2 257	36 451	167 661	57 080	218 324	3 974
332999	All other miscellaneous fabricated metal product manufacturing	—	22	8	f	D	D	D	D	D	D	D	2 932
333	Machinery manufacturing	1	187	71	8 843	428 730	4 778	9 628	169 051	905 623	748 347	1 620 416	44 920
3331	Agriculture, construction, and mining machinery manufacturing	3	8	3	129	5 590	73	154	2 511	22 189	14 266	36 724	390
3332	Industrial machinery manufacturing	1	38	16	2 246	116 763	1 129	1 968	45 244	236 221	266 915	476 374	10 729
33322	Plastics and rubber industry machinery manufacturing	—	4	3	104	5 079	51	115	1 985	6 069	14 529	23 416	150
333220	Plastics and rubber industry machinery manufacturing ..	—	4	3	104	5 079	51	115	1 985	6 069	14 529	23 416	150

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE—Con.													
333	Machinery manufacturing—Con.												
3332	Industrial machinery manufacturing—Con.												
33329	Other industrial machinery manufacturing	1	29	12	2 071	109 015	1 041	1 793	42 259	226 239	245 898	442 468	10 536
333291	Paper industry machinery manufacturing	8	5	3	317	15 326	186	374	6 714	32 328	25 097	60 640	D
333293	Printing machinery and equipment manufacturing ..	—	4	3	g	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing	1	5	2	106	4 711	59	132	1 939	3 898	3 619	9 047	D
333298	All other industrial machinery manufacturing	—	5	2	c	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	—	29	13	1 801	94 306	853	1 764	28 139	183 776	177 299	358 118	14 385
33331	Commercial and service industry machinery manufacturing	—	29	13	1 801	94 306	853	1 764	28 139	183 776	177 299	358 118	14 385
333314	Optical instrument and lens manufacturing	—	16	8	1 292	71 891	570	1 188	18 945	104 659	138 937	240 509	D
333315	Photographic and photocopying equipment manufacturing	—	3	1	c	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing	1	9	4	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	6	12	5	343	13 974	208	410	6 098	29 028	17 148	45 264	853
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	6	12	5	343	13 974	208	410	6 098	29 028	17 148	45 264	853
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2	6	3	235	8 615	163	319	4 895	16 941	7 647	23 860	547
3335	Metalworking machinery manufacturing	3	51	10	705	31 668	423	769	15 158	45 787	26 651	75 483	1 544
33351	Metalworking machinery manufacturing	3	51	10	705	31 668	423	769	15 158	45 787	26 651	75 483	1 544
333511	Industrial mold manufacturing	1	18	3	226	9 362	163	285	5 921	13 991	4 312	18 174	823
333512	Machine tool (metal cutting types) manufacturing	4	4	3	246	12 468	127	241	4 524	13 191	14 572	30 887	499
333515	Cutting tool and machine tool accessory manufacturing	2	11	2	129	4 411	86	153	3 117	10 148	3 346	13 573	123
3336	Engine, turbine, and power transmission equipment manufacturing	1	5	3	600	22 381	526	1 258	18 939	53 465	23 785	79 047	2 379
33361	Engine, turbine, and power transmission equipment manufacturing	1	5	3	600	22 381	526	1 258	18 939	53 465	23 785	79 047	2 379
333613	Mechanical power transmission equipment manufacturing	1	3	3	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing	—	44	21	3 019	144 048	1 566	3 305	52 962	335 157	222 283	549 406	14 640
33391	Pump and compressor manufacturing	—	8	4	400	18 670	189	405	7 826	45 152	44 454	90 807	D
333911	Pump and pumping equipment manufacturing ..	1	4	1	165	9 521	99	209	4 850	26 001	21 693	48 852	D
333912	Air and gas compressor manufacturing	—	3	2	c	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	—	4	1	164	6 102	129	175	3 954	13 445	4 156	17 373	D
333922	Conveyor and conveying equipment manufacturing ..	—	3	1	c	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	—	32	16	2 455	119 276	1 248	2 725	41 182	276 560	173 673	441 226	9 488
333992	Welding and soldering equipment manufacturing ..	—	5	4	891	40 361	448	949	15 024	103 224	74 347	175 689	3 260
333993	Packaging machinery manufacturing	—	5	3	f	D	D	D	D	D	D	D	1 142
333994	Industrial process furnace and oven manufacturing ...	—	6	2	c	D	D	D	D	D	D	D	80
333999	All other miscellaneous general purpose machinery manufacturing	2	16	7	747	30 989	500	1 122	15 117	69 298	45 719	106 201	5 006
334	Computer and electronic product manufacturing	—	247	113	17 558	925 915	7 628	15 675	257 428	2 193 743	1 797 546	3 932 356	119 711

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NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE—Con.													
334	Computer and electronic product manufacturing—Con.												
3341	Computer and peripheral equipment manufacturing	3	23	8	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	3	23	8	f	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing	4	8	4		171	11 486	37	73	1 319	23 461	19 461	43 876
334119	Other computer peripheral equipment manufacturing ..	—	13	3		393	23 160	143	279	5 707	44 425	56 778	100 926
3342	Communications equipment manufacturing	1	37	22		2 118	114 596	654	1 249	24 831	516 093	407 496	960 164
33421	Telephone apparatus manufacturing	1	17	14		1 533	80 909	361	693	12 317	470 580	380 362	890 672
334210	Telephone apparatus manufacturing	1	17	14		1 533	80 909	361	693	12 317	470 580	380 362	890 672
33422	Radio and television broadcasting and wireless communications equipment manufacturing	4	18	8	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	4	18	8	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing	7	6	2	c	D	D	D	D	D	D	D	427
33431	Audio and video equipment manufacturing	7	6	2	c	D	D	D	D	D	D	D	427
334310	Audio and video equipment manufacturing	7	6	2	c	D	D	D	D	D	D	D	427
3344	Semiconductor and other electronic component manufacturing	—	107	52		7 362	295 036	4 409	9 208	141 934	523 482	686 155	1 191 311
33441	Semiconductor and other electronic component manufacturing	—	107	52		7 362	295 036	4 409	9 208	141 934	523 482	686 155	1 191 311
334412	Bare printed circuit board manufacturing	—	14	11		2 930	124 580	1 734	3 916	56 381	118 811	311 786	426 910
334413	Semiconductor and related device manufacturing	2	19	7		749	35 230	419	809	14 705	74 473	33 291	107 646
334415	Electronic resistor manufacturing	3	2	2	c	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, and other inductor manufacturing	—	7	4		469	15 520	279	598	7 336	27 877	14 368	43 306
334417	Electronic connector manufacturing	1	5	1		218	6 119	140	250	3 959	17 071	6 753	21 864
334418	Printed circuit assembly (electronic assembly) manufacturing	—	26	17		1 857	70 350	1 219	2 344	42 452	192 179	264 467	442 890
334419	Other electronic component manufacturing	1	33	10		1 022	39 484	547	1 150	15 601	85 189	51 214	136 566
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	67	27		7 217	465 795	2 262	4 595	80 234	1 046 847	594 922	1 564 444
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	67	27		7 217	465 795	2 262	4 595	80 234	1 046 847	594 922	1 564 444
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	5	4	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	—	5	2	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	9	14	2	c	D	D	D	D	D	D	D	331
334514	Totalizing fluid meter and counting device manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	1	18	8		853	40 824	499	923	18 422	111 673	59 981	171 177
334516	Analytical laboratory instrument manufacturing ..	—	8	4		243	12 330	92	183	3 136	25 466	9 302	34 876
334517	Irradiation apparatus manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	1	12	4		395	19 302	174	243	4 164	41 476	15 935	58 121
335	Electrical equipment, appliance, and component manufacturing	—	55	27		4 231	172 329	2 975	5 816	97 652	664 650	369 121	1 037 476

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE—Con.													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3351	Electric lighting equipment manufacturing	—	7	4	g	D	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	—	5	2	c	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	—	19	9	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	—	19	9	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing	2	6	3	c	D	D	D	D	D	D	D	350
335314	Relay and industrial control manufacturing	—	9	4	473	16 817	327	555	8 309	68 823	91 841	159 415	D
3359	Other electrical equipment and component manufacturing	—	28	14	1 717	76 362	1 182	2 117	37 231	337 480	145 479	485 508	D
33592	Communication and energy wire and cable manufacturing .	—	9	6	935	51 190	623	1 273	23 122	250 488	110 621	365 035	8 634
335921	Fiber optic cable manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing .	—	7	5	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	—	8	5	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing	—	7	5	566	16 208	429	568	10 295	67 448	23 809	90 173	2 135
33599	All other electrical equipment and component manufacturing	6	11	3	c	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	6	10	2	c	D	D	D	D	D	D	D	408
336	Transportation equipment manufacturing	—	37	15	3 133	107 323	2 524	4 492	81 237	247 832	330 533	584 880	14 604
3362	Motor vehicle body and trailer manufacturing	2	6	3	c	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	2	6	3	c	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing	2	5	3	c	D	D	D	D	D	D	D	236
3363	Motor vehicle parts manufacturing	—	15	8	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	1	7	4	791	16 467	597	775	12 520	93 473	55 989	148 467	5 732
336321	Vehicular lighting equipment manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	1	10	2	e	D	D	D	D	D	D	D	D
33661	Ship and boat building	1	10	2	e	D	D	D	D	D	D	D	D
336611	Ship building and repairing ..	—	2	1	c	D	D	D	D	D	D	D	D
336612	Boat building	2	8	1	c	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	115	19	1 389	43 814	1 004	1 986	26 306	66 363	56 218	124 356	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	94	13	1 085	32 460	803	1 582	20 004	49 191	39 597	88 833	1 695
33711	Wood kitchen cabinet and countertop manufacturing	1	43	5	400	13 975	281	513	8 172	25 859	11 481	37 442	931
337110	Wood kitchen cabinet and countertop manufacturing ..	1	43	5	400	13 975	281	513	8 172	25 859	11 481	37 442	931
33712	Household and institutional furniture manufacturing	1	51	8	685	18 485	522	1 069	11 832	23 332	28 116	51 391	764
337122	Nonupholstered wood household furniture manufacturing	1	40	6	550	14 826	439	922	9 951	16 989	22 134	39 029	622
337127	Institutional furniture manufacturing	—	6	2	115	3 209	79	141	1 779	5 577	5 147	10 755	109

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NEW HAMPSHIRE—Con.													
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing	—	16	5	249	9 766	164	337	5 308	17 231	14 856	32 175	D
33721	Office furniture (including fixtures) manufacturing	—	16	5	249	9 766	164	337	5 308	17 231	14 856	32 175	D
337212	Custom architectural woodwork and millwork manufacturing	—	11	4	214	8 472	138	281	4 663	14 053	10 070	24 238	D
339	Miscellaneous manufacturing	2	208	50	6 993	250 967	4 720	9 366	133 010	632 640	415 103	1 051 111	41 074
3391	Medical equipment and supplies manufacturing	3	81	20	3 565	139 881	2 253	4 520	67 492	336 043	186 084	520 289	22 149
33911	Medical equipment and supplies manufacturing	3	81	20	3 565	139 881	2 253	4 520	67 492	336 043	186 084	520 289	22 149
339111	Laboratory apparatus and furniture manufacturing	5	6	5	910	37 427	483	1 010	13 641	77 778	54 634	129 191	4 271
339112	Surgical and medical instrument manufacturing ..	3	18	8	1 661	72 576	1 023	2 085	35 737	213 591	103 470	303 908	15 718
339113	Surgical appliance and supplies manufacturing	2	18	5	601	18 177	448	838	9 588	21 307	20 898	51 502	1 183
339116	Dental laboratories	3	37	2	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing	—	127	30	3 428	111 086	2 467	4 846	65 518	296 597	229 019	530 822	18 925
33991	Jewelry and silverware manufacturing	9	15	1	155	4 548	108	207	2 644	8 097	11 632	19 705	D
339911	Jewelry (except costume) manufacturing	9	11	1	143	4 199	100	194	2 447	7 345	11 170	18 491	272
33992	Sporting and athletic goods manufacturing	1	7	2	140	4 153	91	188	1 877	22 413	5 180	27 583	79
339920	Sporting and athletic goods manufacturing	1	7	2	140	4 153	91	188	1 877	22 413	5 180	27 583	79
33993	Doll, toy, and game manufacturing	—	7	3	c	D	D	D	D	D	D	D	395
339932	Game, toy, and children's vehicle manufacturing	—	5	3	142	4 074	105	130	2 425	8 705	7 682	16 141	D
33995	Sign manufacturing	3	41	3	254	9 473	145	277	4 335	14 580	13 072	28 056	305
339950	Sign manufacturing	3	41	3	254	9 473	145	277	4 335	14 580	13 072	28 056	305
33999	All other miscellaneous manufacturing	—	53	20	2 671	86 854	1 995	3 999	53 694	239 029	189 369	433 468	17 848
339991	Gasket, packing, and sealing device manufacturing	—	12	11	1 660	54 776	1 263	2 581	35 938	165 613	142 719	307 098	13 200
339994	Broom, brush, and mop manufacturing	—	2	2	c	D	D	D	D	D	D	D	D
339995	Burial casket manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing	—	31	5	486	15 641	290	506	5 986	27 127	19 207	46 382	D

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: 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. For geographical definitions, see Appendix D.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA												
31-33	Manufacturing	1	8 134	2 700	324 972	14 975 806	190 036	374 379	6 500 487	42 539 160	30 860 341	73 869 181	2 234 477
311	Food manufacturing	2	599	174	j	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	-	8	3	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing	-	4	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing	-	4	1	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing	4	57	10	g	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans	9	7	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans	9	7	1	e	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate	1	36	6	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate	1	36	6	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing	-	14	3	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing	-	14	3	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	-	20	10	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	1	11	5	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	-	9	5	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	-	32	11	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	-	16	6	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	-	11	6	g	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing	1	16	5	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	1	16	5	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	-	28	16	1 847	55 506	1 282	2 505	29 865	142 587	259 099	400 079	5 452
31161	Animal slaughtering and processing	-	28	16	1 847	55 506	1 282	2 505	29 865	142 587	259 099	400 079	5 452
311611	Animal (except poultry) slaughtering	-	7	2	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	16	10	g	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	4	37	18	h	D	D	D	D	D	D	D	D
31171	Seafood product preparation and packaging	4	37	18	h	D	D	D	D	D	D	D	D
311712	Fresh and frozen seafood processing	4	32	16	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	3	328	75	i	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing	3	310	70	i	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	206	32	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	3	86	27	h	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing	2	18	11	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing	2	16	4	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing	1	83	28	h	D	D	D	D	D	D	D	D
31191	Snack food manufacturing	-	11	4	e	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing	-	6	3	e	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing	1	6	4	e	D	D	D	D	D	D	D	D
311920	Coffee and tea manufacturing	1	6	4	e	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing	1	14	7	f	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing	1	7	5	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing	3	51	13	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing	1	15	9	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing	5	36	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
312	Beverage and tobacco product manufacturing	1	43	18	h	D	D	D	D	D	D	D
3121	Beverage manufacturing	1	43	18	h	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing	2	21	12	g	D	D	D	D	D	D	D
312111	Soft drink manufacturing	1	9	7	g	D	D	D	D	D	D	D
31212	Breweries	—	15	5	f	D	D	D	D	D	D	D
312120	Breweries	—	15	5	f	D	D	D	D	D	D	D
313	Textile mills	2	106	51	i	D	D	D	D	D	D	D
3131	Fiber, yarn, and thread mills	—	13	3	f	D	D	D	D	D	D	D
31311	Fiber, yarn, and thread mills ...	—	13	3	f	D	D	D	D	D	D	D
313111	Yarn spinning mills	—	5	1	e	D	D	D	D	D	D	D
3132	Fabric mills	2	43	22	g	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	4	13	5	e	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	4	13	5	e	D	D	D	D	D	D	D
31322	Narrow fabric mills and schiffli machine embroidery	1	13	6	f	D	D	D	D	D	D	D
313221	Narrow fabric mills	1	11	6	f	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	1	10	5	e	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	1	10	5	e	D	D	D	D	D	D	D
31324	Knit fabric mills	2	7	6	e	D	D	D	D	D	D	D
313249	Other knit fabric and lace mills	—	5	4	e	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills	2	50	26	h	D	D	D	D	D	D	D
31331	Textile and fabric finishing mills	2	28	9	g	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	3	21	7	f	D	D	D	D	D	D	D
313312	Textile and fabric finishing (except broadwoven fabric) mills	—	7	2	f	D	D	D	D	D	D	D
31332	Fabric coating mills	2	22	17	g	D	D	D	D	D	D	D
313320	Fabric coating mills	2	22	17	g	D	D	D	D	D	D	D
314	Textile product mills	4	166	28	h	D	D	D	D	D	D	D
3141	Textile furnishings mills	2	67	9	f	D	D	D	D	D	D	D
31412	Curtain and linen mills	2	63	8	f	D	D	D	D	D	D	D
314121	Curtain and drapery mills	2	56	6	f	D	D	D	D	D	D	D
3149	Other textile product mills	4	99	19	g	D	D	D	D	D	D	D
31491	Textile bag and canvas mills ...	3	44	6	e	D	D	D	D	D	D	D
314912	Canvas and related product mills	4	39	4	e	D	D	D	D	D	D	D
31499	All other textile product mills ...	5	55	13	g	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	5	55	13	g	D	D	D	D	D	D	D
315	Apparel manufacturing	2	129	27	h	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	1	92	22	h	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	6	49	8	f	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	5	43	7	f	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing	1	8	6	f	D	D	D	D	D	D	D
315222	Men's and boys' cut and sew suit, coat, and overcoat manufacturing	4	4	3	e	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing	—	1	1	e	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing	—	25	7	f	D	D	D	D	D	D	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing	—	3	2	f	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing	1	13	4	e	D	D	D	D	D	D	D
3159	Apparel accessories and other apparel manufacturing	8	33	4	e	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing	8	33	4	e	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
316	Leather and allied product manufacturing	1	66	21	g	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing	2	19	7	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing	2	19	7	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing	2	19	7	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing	—	19	8	f	D	D	D	D	D	D	D	D
31621	Footwear manufacturing	—	19	8	f	D	D	D	D	D	D	D	D
316211	Rubber and plastics footwear manufacturing	—	6	4	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing	1	28	6	f	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing	1	28	6	f	D	D	D	D	D	D	D	D
316993	Personal leather goods (except women's handbag and purse) manufacturing ..	—	7	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	220	51	h	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation ..	2	43	9	f	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation	2	43	9	f	D	D	D	D	D	D	D	D
321113	Sawmills	2	38	9	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	2	165	42	h	D	D	D	D	D	D	D	D
32191	Millwork	1	63	12	g	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing	—	23	7	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	5	30	2	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing	2	42	8	f	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing	2	42	8	f	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing	2	60	22	g	D	D	D	D	D	D	D	D
321992	Prefabricated wood building manufacturing	3	15	8	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product manufacturing	2	44	14	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	1	145	93	j	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	2	17	16	g	D	D	D	D	D	D	D	D
32212	Paper mills	2	13	12	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	2	13	12	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	3	4	4	e	D	D	D	D	D	D	D	D
322130	Paperboard mills	3	4	4	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	128	77	i	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	1	61	39	h	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	—	35	21	g	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing	2	16	11	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	2	30	16	h	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing	2	26	12	h	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	20	11	g	D	D	D	D	D	D	D	D
322231	Die-cut paper and paperboard office supplies manufacturing	—	6	3	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing	1	10	7	f	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing	—	17	11	994	34 258	714	1 459	19 812	145 754	89 488	235 129	4 467
322299	All other converted paper product manufacturing	—	17	11	994	34 258	714	1 459	19 812	145 754	89 488	235 129	4 467

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
323	Printing and related support activities	2	910	194	16 258	639 323	11 435	22 140	388 139	1 383 869	764 847	2 148 688	D
3231	Printing and related support activities	2	910	194	16 258	639 323	11 435	22 140	388 139	1 383 869	764 847	2 148 688	D
32311	Printing	2	'813	174	j	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	1	'415	108	i	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing	2	16	8	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	2	100	17	g	D	D	D	D	D	D	D	D
323114	Quick printing	4	170	9	g	D	D	D	D	D	D	D	D
323115	Digital printing	2	32	15	f	D	D	D	D	D	D	D	D
323116	Manifold business forms printing	1	14	7	f	D	D	D	D	D	D	D	D
323117	Books printing	3	17	8	e	D	D	D	D	D	D	D	D
323119	Other commercial printing ...	6	45	2	e	D	D	D	D	D	D	D	D
32312	Support activities for printing ...	2	'97	20	g	D	D	D	D	D	D	D	D
323121	Tradebinding and related work	2	32	8	f	D	D	D	D	D	D	D	D
323122	Prepress services	2	'65	12	f	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing	—	40	6	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	40	6	f	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	33	6	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing	—	31	4	e	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing ...	—	2	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	'334	'139	j	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	'2	31	11	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing	'1	12	7	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing	'—	9	6	f	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	—	24	17	f	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing	—	23	16	f	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing	—	19	15	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	3	73	41	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	3	73	41	i	D	D	D	D	D	D	D	D
325411	Medicinal and botanical manufacturing	3	15	6	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	3	33	15	i	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing	2	10	9	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	15	11	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	1	'67	'24	g	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	1	38	13	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing	1	38	13	f	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing	—	'29	'11	f	D	D	D	D	D	D	D	D
325520	Adhesive manufacturing	—	'29	'11	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	42	13	g	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing	4	36	11	f	D	D	D	D	D	D	D	D
325612	Polish and other sanitation good manufacturing	7	15	5	e	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing	—	6	2	f	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
325	Chemical manufacturing—Con.												
3259	Other chemical product and preparation manufacturing	2	85	32	h	D	D	D	D	D	D	D	D
32591	Printing ink manufacturing	5	20	7	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing	5	20	7	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing . . .	1	64	25	h	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins	2	26	12	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, and chemical manufacturing	—	7	3	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .	1	31	10	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	357	179	18 965	636 123	14 140	26 414	389 852	'1 804 008	1 366 432	'3 177 304	D
3261	Plastics product manufacturing . .	1	313	163	j	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing	—	33	18	g	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing . .	—	7	5	e	D	D	D	D	D	D	D	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing	1	22	11	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing	1	'23	'11	f	D	D	D	D	D	D	D	D
326121	Un laminated plastics profile shape manufacturing	—	19	10	f	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing	1	10	5	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing . .	1	10	5	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing	2	12	7	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing	2	12	7	e	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing	1	17	10	f	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	1	17	10	f	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing . .	—	11	10	f	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing	—	11	10	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	'207	'102	j	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	1	'205	'102	j	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing . . .	3	44	16	g	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing	3	8	5	e	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing . .	3	8	5	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing	2	33	11	g	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use	1	10	4	f	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing	3	23	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	2	236	91	8 563	378 851	5 944	12 754	212 163	893 715	586 159	1 480 370	D
3271	Clay product and refractory manufacturing	2	30	13	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing	3	21	8	e	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing	1	9	5	e	D	D	D	D	D	D	D	D
327125	Nonclay refractory manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	3	44	9	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing	3	44	9	g	D	D	D	D	D	D	D	D
327212	Other pressed and blown glass and glassware manufacturing	1	12	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass . .	4	31	7	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.											
327	Nonmetallic mineral product manufacturing—Con.											
3273	Cement and concrete product manufacturing	3	82	37	g	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing	4	32	18	g	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing	4	32	18	g	D	D	D	D	D	D	D
32733	Concrete pipe, brick, and block manufacturing	3	16	5	e	D	D	D	D	D	D	D
32739	Other concrete product manufacturing	1	33	14	f	D	D	D	D	D	D	D
327390	Other concrete product manufacturing	1	33	14	f	D	D	D	D	D	D	D
3274	Lime and gypsum product manufacturing	—	9	4	e	D	D	D	D	D	D	D
32742	Gypsum product manufacturing	—	8	4	e	D	D	D	D	D	D	D
327420	Gypsum product manufacturing	—	8	4	e	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	1	71	28	h	D	D	D	D	D	D	D
32791	Abrasive product manufacturing	—	17	12	g	D	D	D	D	D	D	D
327910	Abrasive product manufacturing	—	17	12	g	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing	3	54	16	g	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing	5	36	9	f	D	D	D	D	D	D	D
327999	All other miscellaneous nonmetallic mineral product manufacturing	—	14	7	e	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	86	37	h	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel	1	13	6	e	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel	1	11	4	e	D	D	D	D	D	D	D
331222	Steel wire drawing	2	10	4	e	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	1	11	6	f	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	1	11	6	f	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing	1	19	8	f	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying	2	8	5	f	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing	—	6	4	e	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	—	9	2	e	D	D	D	D	D	D	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	—	6	2	e	D	D	D	D	D	D	D
3315	Foundries	—	43	17	h	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	13	6	g	D	D	D	D	D	D	D
331512	Steel investment foundries ..	—	1	1	g	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	30	11	g	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	—	4	3	f	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	—	17	5	f	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	517	411	k	D	D	D	D	D	D	D
3321	Forging and stamping	1	64	23	g	D	D	D	D	D	D	D
33211	Forging and stamping	1	64	23	g	D	D	D	D	D	D	D
332111	Iron and steel forging	—	7	2	f	D	D	D	D	D	D	D
332116	Metal stamping	3	42	15	g	D	D	D	D	D	D	D
332117	Powder metallurgy part manufacturing	1	5	2	e	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
332	Fabricated metal product manufacturing—Con.												
3322	Cutlery and handtool manufacturing	—	35	16	h	D	D	D	D	D	D	D	
33221	Cutlery and handtool manufacturing	—	35	16	h	D	D	D	D	D	D	D	
332211	Cutlery and flatware (except precious) manufacturing ...	—	3	3	g	D	D	D	D	D	D	D	
332212	Hand and edge tool manufacturing	1	30	12	g	D	D	D	D	D	D	D	
332213	Saw blade and handsaw manufacturing	—	2	1	e	D	D	D	D	D	D	D	
3323	Architectural and structural metals manufacturing	2	289	96	i	D	D	D	D	D	D	D	
33231	Plate work and fabricated structural product manufacturing	2	73	29	g	D	D	D	D	D	D	D	
332311	Prefabricated metal building and component manufacturing	—	6	2	e	D	D	D	D	D	D	D	
332312	Fabricated structural metal manufacturing	2	50	19	g	D	D	D	D	D	D	D	
332313	Plate work manufacturing ...	2	17	8	e	D	D	D	D	D	D	D	
33232	Ornamental and architectural metal products manufacturing	2	216	67	h	D	D	D	D	D	D	D	
332321	Metal window and door manufacturing	3	15	7	e	D	D	D	D	D	D	D	
332322	Sheet metal work manufacturing	2	143	48	h	D	D	D	D	D	D	D	
332323	Ornamental and architectural metal work manufacturing ..	3	58	12	f	D	D	D	D	D	D	D	
3324	Boiler, tank, and shipping container manufacturing	2	28	15	g	D	D	D	D	D	D	D	
33241	Power boiler and heat exchanger manufacturing	—	7	5	e	D	D	D	D	D	D	D	
332410	Power boiler and heat exchanger manufacturing ..	—	7	5	e	D	D	D	D	D	D	D	
33242	Metal tank (heavy gauge) manufacturing	5	7	5	f	D	D	D	D	D	D	D	
332420	Metal tank (heavy gauge) manufacturing	5	7	5	f	D	D	D	D	D	D	D	
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	14	5	e	D	D	D	D	D	D	D	
3325	Hardware manufacturing	3	11	6	f	D	D	D	D	D	D	D	
33251	Hardware manufacturing	3	11	6	f	D	D	D	D	D	D	D	
332510	Hardware manufacturing	3	11	6	f	D	D	D	D	D	D	D	
3326	Spring and wire product manufacturing	1	37	12	f	D	D	D	D	D	D	D	
33261	Spring and wire product manufacturing	1	37	12	f	D	D	D	D	D	D	D	
332612	Spring (light gauge) manufacturing	—	6	3	e	D	D	D	D	D	D	D	
332618	Other fabricated wire product manufacturing	2	30	9	f	D	D	D	D	D	D	D	
3327	Machine shops: turned product; and screw, nut, and bolt manufacturing	2	725	141	8 925	376 709	6 530	12 904	244 192	748 645	306 001	1 061 690	D
33271	Machine shops	3	617	94	i	D	D	D	D	D	D	D	D
332710	Machine shops	3	617	94	i	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing	1	108	47	h	D	D	D	D	D	D	D	D
332721	Precision turned product manufacturing	1	83	35	g	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing	1	25	12	716	29 090	507	970	17 040	55 530	37 421	94 751	D
3328	Coating, engraving, heat treating, and allied activities	1	170	44	h	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	1	170	44	h	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	79	18	g	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring	2	75	21	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
332	Fabricated metal product manufacturing—Con.											
3329	Other fabricated metal product manufacturing	—	158	58	i	D	D	D	D	D	D	D
33291	Metal valve manufacturing	—	33	18	h	D	D	D	D	D	D	D
332911	Industrial valve manufacturing	—	20	12	g	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing	—	5	3	e	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing	—	2	1	e	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	125	40	h	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	—	3	2	f	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing	—	3	2	g	D	D	D	D	D	D	D
332994	Small arms manufacturing	—	4	3	f	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	1	97	29	g	D	D	D	D	D	D	D
333	Machinery manufacturing	2	648	234	k	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	3	21	9	f	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	6	11	6	e	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	6	11	6	e	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing	3	146	59	j	D	D	D	D	D	D	D
33322	Plastics and rubber industry machinery manufacturing	4	23	9	g	D	D	D	D	D	D	D
333220	Plastics and rubber industry machinery manufacturing ..	4	23	9	g	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing	3	114	49	i	D	D	D	D	D	D	D
333291	Paper industry machinery manufacturing	4	14	5	f	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	—	15	10	g	D	D	D	D	D	D	D
333294	Food product machinery manufacturing	1	14	4	e	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing	3	22	13	h	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing	5	36	14	h	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	1	100	44	4 467	212 637	2 478	5 158	86 507	419 269	308 029	719 742
33331	Commercial and service industry machinery manufacturing	1	100	44	4 467	212 637	2 478	5 158	86 507	419 269	308 029	719 742
333314	Optical instrument and lens manufacturing	—	53	25	h	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing	5	10	5	e	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing	3	32	14	g	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	5	31	13	g	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	5	31	13	g	D	D	D	D	D	D	D
333411	Air purification equipment manufacturing	7	8	5	e	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing	1	9	4	e	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	7	10	2	f	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing	1	190	42	h	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing	1	190	42	h	D	D	D	D	D	D	D	D
333511	Industrial mold manufacturing	2	55	14	g	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) manufacturing	5	11	6	e	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing	3	60	5	e	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing	1	39	9	f	D	D	D	D	D	D	D	D
333516	Rolling mill machinery and equipment manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing	3	15	8	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing	3	15	8	f	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing	6	4	3	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing	1	145	59	i	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing	1	17	10	g	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	9	4	f	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing	2	7	5	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	4	18	9	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	1	9	4	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	1	110	40	h	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing	2	14	5	e	D	D	D	D	D	D	D	D
333994	Industrial process furnace and oven manufacturing ...	—	18	8	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing	1	61	20	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	957	488	86 205	4 863 399	35 823	70 980	1 359 145	15 419 598	10 013 168	25 764 997	688 045
3341	Computer and peripheral equipment manufacturing	1	104	45	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	1	104	45	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing	1	25	14	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing	—	10	5	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	3	64	26	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	1	127	82	j	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	1	47	36	i	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	1	47	36	i	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	4	58	35	h	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	4	58	35	h	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing	1	22	11	h	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	1	22	11	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.											
334	Computer and electronic product manufacturing—Con.											
3343	Audio and video equipment manufacturing	2	20	9	g	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	2	20	9	g	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	2	20	9	g	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	356	183	k	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	—	356	183	k	D	D	D	D	D	D	D
334411	Electron tube manufacturing	1	7	3	f	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing	—	57	31	i	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	—	82	43	i	D	D	D	D	D	D	D
334416	Electronic coil, transformer, and other inductor manufacturing	—	18	5	f	D	D	D	D	D	D	D
334417	Electronic connector manufacturing	1	18	10	f	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	1	71	51	h	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	96	37	h	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	316	157	k	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing	—	316	157	k	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing	2	40	21	h	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	41	19	j	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	4	10	6	f	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	—	43	26	h	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2	52	25	i	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing	—	45	18	h	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing	—	16	11	h	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing	—	7	4	e	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	1	55	22	h	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media	3	34	12	g	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media	3	34	12	g	D	D	D	D	D	D	D
334611	Software reproducing	—	5	3	461	18 279	363	720	12 203	39 946	21 132	61 094
334612	Pre-recorded compact disc (except software), tape, and record reproducing	7	20	6	f	D	D	D	D	D	D	D
334613	Magnetic and optical recording media manufacturing	1	9	3	e	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	1	219	105	j	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing	—	24	11	h	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	—	3	2	g	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	—	3	2	g	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3351	Electric lighting equipment manufacturing—Con.												
33512	Lighting fixture manufacturing	1	21	9	g	D	D	D	D	D	D	D	
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	—	5	3	f	D	D	D	D	D	D	D	
335129	Other lighting equipment manufacturing	3	8	4	e	D	D	D	D	D	D	D	
3353	Electrical equipment manufacturing	2	73	32	h	D	D	D	D	D	D	D	
33531	Electrical equipment manufacturing	2	73	32	h	D	D	D	D	D	D	D	
335312	Motor and generator manufacturing	2	18	10	g	D	D	D	D	D	D	D	
335313	Switchgear and switchboard apparatus manufacturing	—	7	4	f	D	D	D	D	D	D	D	
335314	Relay and industrial control manufacturing	3	41	16	h	D	D	D	D	D	D	D	
3359	Other electrical equipment and component manufacturing	1	117	60	i	D	D	D	D	D	D	D	
33591	Battery manufacturing	1	6	4	400	16 490	324	644	11 577	25 439	16 498	41 320	1 185
33592	Communication and energy wire and cable manufacturing	1	33	24	h	D	D	D	D	D	D	D	
335921	Fiber optic cable manufacturing	—	9	6	e	D	D	D	D	D	D	D	
335929	Other communication and energy wire manufacturing	2	24	18	h	D	D	D	D	D	D	D	
33593	Wiring device manufacturing	—	28	16	h	D	D	D	D	D	D	D	
335931	Current-carrying wiring device manufacturing	—	26	15	h	D	D	D	D	D	D	D	
33599	All other electrical equipment and component manufacturing	4	50	16	h	D	D	D	D	D	D	D	
335999	All other miscellaneous electrical equipment and component manufacturing	4	44	14	h	D	D	D	D	D	D	D	
336	Transportation equipment manufacturing	—	148	53	i	D	D	D	D	D	D	D	
3362	Motor vehicle body and trailer manufacturing	1	24	10	f	D	D	D	D	D	D	D	
33621	Motor vehicle body and trailer manufacturing	1	24	10	f	D	D	D	D	D	D	D	
336211	Motor vehicle body manufacturing	—	14	7	e	D	D	D	D	D	D	D	
3363	Motor vehicle parts manufacturing	2	64	25	h	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine and engine parts manufacturing	—	12	1	e	D	D	D	D	D	D	D	
336312	Gasoline engine and engine parts manufacturing	—	12	1	e	D	D	D	D	D	D	D	
33632	Motor vehicle electrical and electronic equipment manufacturing	4	21	8	e	D	D	D	D	D	D	D	
336322	Other motor vehicle electrical and electronic equipment manufacturing	4	21	8	e	D	D	D	D	D	D	D	
33634	Motor vehicle brake system manufacturing	—	6	2	e	D	D	D	D	D	D	D	
336340	Motor vehicle brake system manufacturing	—	6	2	e	D	D	D	D	D	D	D	
33635	Motor vehicle transmission and power train parts manufacturing	—	2	2	f	D	D	D	D	D	D	D	
336350	Motor vehicle transmission and power train parts manufacturing	—	2	2	f	D	D	D	D	D	D	D	
33637	Motor vehicle metal stamping	1	10	5	e	D	D	D	D	D	D	D	
336370	Motor vehicle metal stamping	1	10	5	e	D	D	D	D	D	D	D	
33639	Other motor vehicle parts manufacturing	2	9	3	f	D	D	D	D	D	D	D	
336399	All other motor vehicle parts manufacturing	2	9	3	f	D	D	D	D	D	D	D	
3364	Aerospace product and parts manufacturing	—	17	11	i	D	D	D	D	D	D	D	
33641	Aerospace product and parts manufacturing	—	17	11	i	D	D	D	D	D	D	D	
336412	Aircraft engine and engine parts manufacturing	—	12	11	i	D	D	D	D	D	D	D	

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
336	Transportation equipment manufacturing—Con.												
3366	Ship and boat building	3	32	4	e	D	D	D	D	D	D	D	D
33661	Ship and boat building	3	32	4	e	D	D	D	D	D	D	D	D
336612	Boat building	4	22	3	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	382	81	i	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	276	45	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	3	143	15	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	3	143	15	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing	1	133	30	h	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing	—	17	4	e	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing	1	86	17	g	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing	—	19	7	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	2	86	30	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	2	86	30	g	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing	—	49	16	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing	3	25	11	f	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing	—	20	6	f	D	D	D	D	D	D	D	D
33791	Mattress manufacturing	—	10	5	f	D	D	D	D	D	D	D	D
337910	Mattress manufacturing	—	10	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	826	219	25 273	1 050 489	15 069	29 695	443 442	2 731 924	1 457 416	4 234 856	D
3391	Medical equipment and supplies manufacturing	3	332	102	j	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	3	332	102	j	D	D	D	D	D	D	D	D
339111	Laboratory apparatus and furniture manufacturing	3	30	15	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	4	84	48	i	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing	2	44	20	h	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing	—	14	6	g	D	D	D	D	D	D	D	D
339116	Dental laboratories	5	146	12	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing	2	494	117	j	D	D	D	D	D	D	D	D
33991	Jewelry and silverware manufacturing	—	42	7	f	D	D	D	D	D	D	D	D
339912	Silverware and hollowware manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing	4	36	11	g	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing	4	36	11	g	D	D	D	D	D	D	D	D
33993	Doll, toy, and game manufacturing	4	20	7	e	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing	4	19	7	e	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) manufacturing	1	20	4	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing	3	141	20	g	D	D	D	D	D	D	D	D
339950	Sign manufacturing	3	141	20	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	1	235	68	i	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing	1	30	18	h	D	D	D	D	D	D	D	D
339992	Musical instrument manufacturing	1	25	8	f	D	D	D	D	D	D	D	D
339994	Broom, brush, and mop manufacturing	3	6	4	e	D	D	D	D	D	D	D	D
339995	Burial casket manufacturing ..	—	5	3	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing	2	166	34	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area												
31-33	Manufacturing	1	5 872	1 910	232 033	110 952 280	131 012	258 296	14 579 130	32 338 591	22 739 496	55 561 592	1 574 558
311	Food manufacturing	2	513	149	16 027	543 061	10 704	20 512	287 840	1 882 246	2 233 206	4 108 291	75 273
3113	Sugar and confectionery product manufacturing	4	53	9	g	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans	9	6	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans	9	6	1	e	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate	1	33	5	628	19 824	518	1 054	14 709	62 023	39 848	101 298	D
311330	Confectionery manufacturing from purchased chocolate	1	33	5	628	19 824	518	1 054	14 709	62 023	39 848	101 298	D
31134	Nonchocolate confectionery manufacturing	—	14	3	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing	—	14	3	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	—	17	9	455	16 572	323	651	8 553	125 253	46 268	174 650	3 283
3115	Dairy product manufacturing	—	28	9	2 107	100 337	1 208	2 393	48 082	535 642	632 274	1 162 956	20 796
31151	Dairy product (except frozen) manufacturing	—	13	5	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	—	10	5	g	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing	1	15	4	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	1	15	4	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	—	23	13	1 721	52 555	1 219	2 388	28 500	135 215	243 470	377 169	5 372
31161	Animal slaughtering and processing	—	23	13	1 721	52 555	1 219	2 388	28 500	135 215	243 470	377 169	5 372
311611	Animal (except poultry) slaughtering	1	6	1	e	D	D	D	D	D	D	D	1 095
311612	Meat processed from carcasses	—	12	8	1 194	41 072	824	1 819	22 913	98 400	221 143	319 042	D
3117	Seafood product preparation and packaging	4	35	17	2 486	95 686	1 693	3 260	43 470	320 002	455 619	782 735	D
31171	Seafood product preparation and packaging	4	35	17	2 486	95 686	1 693	3 260	43 470	320 002	455 619	782 735	D
311712	Fresh and frozen seafood processing	4	30	15	2 384	93 485	1 603	3 079	41 824	315 847	447 534	770 518	D
3118	Bakeries and tortilla manufacturing	3	273	63	4 928	129 077	3 060	5 659	71 137	326 668	187 748	512 719	D
31181	Bread and bakery product manufacturing	3	256	58	h	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	174	25	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	3	67	25	2 565	79 149	1 737	3 525	45 347	207 714	103 759	310 580	9 517
311813	Frozen cakes, pies, and other pastries manufacturing	2	15	8	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing	2	15	4	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing	1	73	25	h	D	D	D	D	D	D	D	D
31191	Snack food manufacturing	—	8	3	e	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing	1	4	3	259	10 989	122	250	3 819	34 782	46 099	81 058	D
311920	Coffee and tea manufacturing	1	4	3	259	10 989	122	250	3 819	34 782	46 099	81 058	D
31194	Seasoning and dressing manufacturing	1	13	6	805	35 304	468	948	15 376	54 702	252 439	306 696	3 197
311941	Mayonnaise, dressing, and other prepared sauce manufacturing	1	6	4	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing	3	47	13	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing	1	15	9	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing	5	32	4	e	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.													
312	Beverage and tobacco product manufacturing	1	30	13	1 943	92 605	1 114	2 435	45 449	409 634	568 392	979 187	28 610
3121	Beverage manufacturing	1	30	13	1 943	92 605	1 114	2 435	45 449	409 634	568 392	979 187	28 610
31211	Soft drink and ice manufacturing	—	14	8	1 239	50 743	783	1 626	28 156	193 991	445 612	640 480	D
312111	Soft drink manufacturing	—	5	5	1 011	41 572	685	1 428	25 038	160 629	428 885	591 133	D
31212	Breweries	—	12	4	e	D	D	D	D	D	D	D	D
312120	Breweries	—	12	4	e	D	D	D	D	D	D	D	D
313	Textile mills	1	68	33	3 569	129 086	2 613	5 348	75 674	295 369	383 404	699 545	D
3131	Fiber, yarn, and thread mills	—	6	2	e	D	D	D	D	D	D	D	703
31311	Fiber, yarn, and thread mills	—	6	2	e	D	D	D	D	D	D	D	703
313111	Yarn spinning mills	—	2	1	e	D	D	D	D	D	D	D	D
3132	Fabric mills	2	27	12	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills and schiffli machine embroidery	8	7	4	e	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	8	6	4	e	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	1	9	4	450	20 045	336	699	12 464	28 936	32 438	68 846	D
313230	Nonwoven fabric mills	1	9	4	450	20 045	336	699	12 464	28 936	32 438	68 846	D
3133	Textile and fabric finishing and fabric coating mills	1	35	19	2 155	79 649	1 454	2 997	41 578	205 172	253 386	463 149	D
31331	Textile and fabric finishing mills	—	20	7	1 183	35 743	833	1 614	22 880	105 591	92 838	203 540	D
313311	Broadwoven fabric finishing mills	2	14	5	e	D	D	D	D	D	D	D	D
313312	Textile and fabric finishing (except broadwoven fabric) mills	—	6	2	f	D	D	D	D	D	D	D	D
31332	Fabric coating mills	2	15	12	972	43 906	621	1 383	18 698	99 581	160 548	259 609	7 414
313320	Fabric coating mills	2	15	12	972	43 906	621	1 383	18 698	99 581	160 548	259 609	7 414
314	Textile product mills	5	125	21	2 182	63 955	1 549	3 133	40 509	131 442	149 163	282 978	3 673
3141	Textile furnishings mills	2	48	7	695	18 563	510	972	9 828	40 806	63 037	104 611	1 230
31412	Curtain and linen mills	2	46	6	f	D	D	D	D	D	D	D	D
314121	Curtain and drapery mills	2	42	5	570	14 167	439	823	7 946	34 255	53 694	88 254	D
3149	Other textile product mills	7	77	14	1 487	45 392	1 039	2 161	30 681	90 636	86 126	178 367	2 443
31491	Textile bag and canvas mills	2	35	4	332	10 271	224	461	5 739	21 333	18 598	40 121	463
314912	Canvas and related product mills	2	31	3	284	8 818	186	389	4 833	19 019	16 781	36 072	355
31499	All other textile product mills	8	42	10	1 155	35 121	815	1 700	24 942	69 303	67 528	138 246	1 980
314999	All other miscellaneous textile product mills	8	42	10	1 155	35 121	815	1 700	24 942	69 303	67 528	138 246	1 980
315	Apparel manufacturing	2	109	21	2 274	70 890	1 689	3 099	31 163	155 260	173 813	322 349	D
3152	Cut and sew apparel manufacturing	1	78	17	1 959	62 314	1 422	2 569	24 952	142 774	151 344	288 107	D
31521	Cut and sew apparel contractors	7	40	7	e	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	6	36	6	391	6 434	346	610	5 159	9 138	3 099	12 220	87
31522	Men's and boys' cut and sew apparel manufacturing	4	6	4	e	D	D	D	D	D	D	D	D
315222	Men's and boys' cut and sew suit, coat, and overcoat manufacturing	4	4	3	e	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing	—	23	6	971	42 399	575	1 042	10 951	107 617	131 759	231 869	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing	1	11	3	e	D	D	D	D	D	D	D	D
3159	Apparel accessories and other apparel manufacturing	8	29	4	e	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing	8	29	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
316	Leather and allied product manufacturing	1	55	17	g	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing	1	15	6	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing	1	15	6	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing	1	15	6	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing	—	16	7	f	D	D	D	D	D	D	D	D
31621	Footwear manufacturing	—	16	7	f	D	D	D	D	D	D	D	D
316211	Rubber and plastics footwear manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing	2	24	4	e	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing	2	24	4	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	128	23	2 435	82 635	1 655	3 439	47 107	170 219	180 899	347 321	9 859
3211	Sawmills and wood preservation	2	19	2	e	D	D	D	D	D	D	D	1 270
32111	Sawmills and wood preservation	2	19	2	e	D	D	D	D	D	D	D	1 270
321113	Sawmills	2	17	2	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	2	100	21	2 097	71 304	1 397	2 893	39 174	146 238	132 755	274 678	8 445
32191	Millwork	1	48	8	803	26 368	502	964	12 082	48 843	69 293	114 998	D
321911	Wood window and door manufacturing	—	20	6	533	19 224	268	517	6 688	35 538	51 839	85 299	1 412
32199	All other wood product manufacturing	3	33	12	1 134	40 763	766	1 677	24 339	91 367	57 752	147 936	D
321992	Prefabricated wood building manufacturing	4	11	6	570	20 748	445	968	13 422	45 021	40 321	84 477	D
321999	All other miscellaneous wood product manufacturing	1	22	6	564	20 015	321	709	10 917	46 346	17 431	63 459	3 539
322	Paper manufacturing	2	94	59	6 011	244 055	4 330	8 906	144 134	574 814	640 153	1 212 609	31 930
3221	Pulp, paper, and paperboard mills	2	11	10	995	50 556	709	1 550	34 157	141 617	156 226	298 399	8 810
32212	Paper mills	2	7	6	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	2	7	6	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	3	4	4	e	D	D	D	D	D	D	D	D
322130	Paperboard mills	3	4	4	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	2	83	49	5 016	193 499	3 621	7 356	109 977	433 197	483 927	914 210	23 120
32221	Paperboard container manufacturing	1	39	25	2 090	77 196	1 581	3 165	46 198	160 527	246 207	406 808	6 760
322211	Corrugated and solid fiber box manufacturing	—	19	11	1 036	44 577	714	1 464	22 822	96 319	147 653	244 060	3 941
322212	Folding paperboard box manufacturing	4	11	7	716	21 883	604	1 126	15 824	42 799	53 667	96 200	D
32222	Paper bag and coated and treated paper manufacturing	4	20	12	1 450	68 055	912	1 929	34 590	173 696	155 461	325 343	10 668
322222	Coated and laminated paper manufacturing	3	17	9	g	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	12	5	838	27 720	684	1 358	17 966	59 083	38 259	98 222	2 717
322231	Die-cut paper and paperboard office supplies manufacturing	—	5	3	744	24 712	616	1 211	16 269	52 771	30 431	83 681	D
32229	Other converted paper product manufacturing	2	12	7	638	20 528	444	904	11 223	39 891	44 000	83 837	2 975
322299	All other converted paper product manufacturing	2	12	7	638	20 528	444	904	11 223	39 891	44 000	83 837	2 975
323	Printing and related support activities	2	713	150	12 467	497 850	8 768	17 098	298 400	1 053 112	572 573	1 626 030	42 641
3231	Printing and related support activities	2	713	150	12 467	497 850	8 768	17 098	298 400	1 053 112	572 573	1 626 030	42 641
32311	Printing	2	642	134	11 280	448 924	7 871	15 365	264 590	957 611	549 655	1 507 716	38 856
323110	Commercial lithographic printing	2	327	85	6 702	288 918	4 528	9 059	164 070	550 570	373 178	923 355	26 340
323112	Commercial flexographic printing	3	12	4	282	11 240	170	352	5 339	24 658	17 507	42 292	D
323113	Commercial screen printing	3	72	11	1 090	33 925	796	1 562	19 841	68 797	36 411	105 011	2 040
323114	Quick printing	4	138	7	879	28 123	602	1 098	17 092	63 271	27 103	90 381	2 654
323115	Digital printing	2	27	13	615	24 166	421	772	14 162	48 254	18 672	66 793	D
323116	Manifold business forms printing	1	11	5	417	13 400	302	486	7 910	99 766	24 369	124 450	2 348

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
323	Printing and related support activities—Con.												
3231	Printing and related support activities—Con.												
32311	Printing—Con.												
323117	Books printing	4	16	7	1 002	38 907	849	1 671	30 224	81 545	40 047	122 262	1 857
323119	Other commercial printing	6	36	2	264	9 484	178	326	5 399	19 321	11 014	30 388	1 393
32312	Support activities for printing	2	71	16	1 187	48 926	897	1 733	33 810	95 501	22 918	118 314	3 785
323121	Tradebinding and related work	2	21	6	455	16 152	358	721	11 061	27 976	6 448	34 403	2 246
323122	Prepress services	2	50	10	732	32 774	539	1 012	22 749	67 525	16 470	83 911	1 539
324	Petroleum and coal products manufacturing	—	28	4	e	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	28	4	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	23	4	437	22 987	317	699	15 508	90 779	117 407	203 781	D
324122	Asphalt shingle and coating materials manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	258	107	16 779	933 095	7 809	15 489	346 590	3 785 472	1 605 791	5 399 852	274 438
3251	Basic chemical manufacturing	2	20	8	622	53 483	263	555	18 992	175 532	132 013	301 561	D
32519	Other basic organic chemical manufacturing	1	9	5	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing	1	6	4	e	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	1	12	8	e	D	D	D	D	D	D	D	6 671
32521	Resin and synthetic rubber manufacturing	—	11	7	e	D	D	D	D	D	D	D	6 671
325211	Plastics material and resin manufacturing	—	9	7	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	3	64	37	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	3	64	37	i	D	D	D	D	D	D	D	D
325411	Medicinal and botanical manufacturing	3	15	6	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	5	27	14	i	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing	2	9	8	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing	—	13	9	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	—	56	20	g	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	1	32	10	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing	1	32	10	f	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing	—	24	10	881	46 119	453	941	19 833	145 495	109 235	258 912	6 247
325520	Adhesive manufacturing	—	24	10	881	46 119	453	941	19 833	145 495	109 235	258 912	6 247
3256	Soap, cleaning compound, and toilet preparation manufacturing	1	38	11	1 291	55 423	709	1 312	26 404	521 801	238 885	761 024	D
32561	Soap and cleaning compound manufacturing	5	32	9	f	D	D	D	D	D	D	D	D
325612	Polish and other sanitation good manufacturing	7	14	5	e	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	2	57	22	3 750	202 974	1 891	3 552	80 097	329 930	449 068	794 168	69 056
32591	Printing ink manufacturing	5	18	7	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing	5	18	7	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing	1	38	15	h	D	D	D	D	D	D	D	67 553
325992	Photographic film, paper, plate, and chemical manufacturing	—	5	2	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing	1	22	9	1 906	106 392	929	1 926	39 116	231 059	299 404	519 910	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
326	Plastics and rubber products manufacturing	1	206	95	9 698	340 153	7 121	14 294	201 224	'836 642	685 002	'1 524 635	54 651
3261	Plastics product manufacturing ..	1	172	83	8 401	293 829	6 209	12 418	175 779	'717 009	582 878	'1 298 781	49 775
32611	Plastics packaging materials and un laminated film and sheet manufacturing	1	21	13	744	28 703	496	1 010	16 523	67 744	75 785	143 074	2 541
326111	Plastics bag manufacturing ..	—	5	4	272	10 845	214	441	7 371	22 106	26 174	46 930	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing	1	13	8	435	16 456	256	511	8 202	42 411	46 012	89 196	1 585
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing	1	'17	'8	'501	'17 665	'412	'978	'13 292	'43 079	'52 353	'96 967	D
326121	Un laminated plastics profile shape manufacturing	1	14	7	e	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing	1	11	7	706	27 578	403	746	10 148	70 800	61 987	132 764	4 663
326150	Urethane and other foam product (except polystyrene) manufacturing	1	11	7	706	27 578	403	746	10 148	70 800	61 987	132 764	4 663
32619	Other plastics product manufacturing	1	'112	'49	'6 211	'210 228	'4 730	'9 337	'130 265	'516 445	'373 253	'886 244	'40 459
326199	All other plastics product manufacturing	1	'112	'49	'6 211	'210 228	'4 730	'9 337	'130 265	'516 445	'373 253	'886 244	'40 459
3262	Rubber product manufacturing ...	3	34	12	1 297	46 324	912	1 876	25 445	119 633	102 124	225 854	4 876
32622	Rubber and plastics hoses and belting manufacturing	3	7	4	e	D	D	D	D	D	D	D	2 498
326220	Rubber and plastics hoses and belting manufacturing ..	3	7	4	e	D	D	D	D	D	D	D	2 498
32629	Other rubber product manufacturing	2	25	8	828	30 869	546	1 179	15 981	80 791	78 856	164 121	2 378
326291	Rubber product manufacturing for mechanical use	—	6	2	421	16 778	248	574	7 600	43 212	29 144	73 346	1 003
326299	All other rubber product manufacturing	4	19	6	407	14 091	298	605	8 381	37 579	49 712	90 775	1 375
327	Nonmetallic mineral product manufacturing	2	154	55	4 060	169 732	2 978	6 415	110 349	444 228	310 142	754 750	22 553
3271	Clay product and refractory manufacturing	2	21	8	e	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing	2	16	6	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	—	30	4	746	31 155	508	1 111	17 737	83 606	50 396	134 191	5 320
32721	Glass and glass product manufacturing	—	30	4	746	31 155	508	1 111	17 737	83 606	50 396	134 191	5 320
327212	Other pressed and blown glass and glassware manufacturing	—	8	1	254	10 189	204	456	6 525	20 937	15 667	37 429	D
327215	Glass product manufacturing made of purchased glass ..	—	22	3	492	20 966	304	655	11 212	62 669	34 729	96 762	D
3273	Cement and concrete product manufacturing	4	46	23	1 420	65 897	1 030	2 243	42 350	138 466	109 628	245 762	9 729
32732	Ready-mix concrete manufacturing	6	18	10	654	33 846	523	1 184	24 393	68 774	65 957	134 728	6 067
327320	Ready-mix concrete manufacturing	6	18	10	654	33 846	523	1 184	24 393	68 774	65 957	134 728	6 067
32739	Other concrete product manufacturing	1	18	9	f	D	D	D	D	D	D	D	2 835
327390	Other concrete product manufacturing	1	18	9	f	D	D	D	D	D	D	D	2 835
3274	Lime and gypsum product manufacturing	—	8	4	e	D	D	D	D	D	D	D	D
32742	Gypsum product manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	3	49	16	1 138	43 268	825	1 726	27 974	91 360	63 619	155 384	3 989
32799	All other nonmetallic mineral product manufacturing	3	42	13	971	36 812	713	1 486	24 398	75 207	50 307	125 732	3 675
327991	Cut stone and stone product manufacturing	6	29	7	569	21 217	453	953	15 871	36 973	29 304	66 348	1 839
327999	All other miscellaneous nonmetallic mineral product manufacturing	—	10	6	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
331	Primary metal manufacturing	—	48	19	1 676	72 852	1 194	2 526	44 478	'86 910	190 070	'287 450	8 156
3314	Nonferrous metal (except aluminum) production and processing	—	10	3	e	D	D	D	D	D	D	D	3 454
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	—	8	2	e	D	D	D	D	D	D	D	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	—	5	2	e	D	D	D	D	D	D	D	D
3315	Foundries	1	28	10	958	36 285	776	1 727	25 909	'80 991	26 404	'108 113	D
33151	Ferrous metal foundries	1	9	4	328	12 471	268	583	8 485	24 956	10 800	35 361	D
33152	Nonferrous metal foundries	—	19	6	630	23 814	508	1 144	17 424	'56 035	15 604	'72 752	D
331521	Aluminum die-casting foundries	—	2	1	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	1	11	3	281	10 025	232	496	7 142	'24 313	5 467	'29 723	D
332	Fabricated metal product manufacturing	1	'1 034	'269	'22 231	'953 556	'15 349	'30 632	'544 414	'2 314 293	'1 396 235	'3 703 345	109 889
3321	Forging and stamping	3	39	10	999	39 473	736	1 533	24 300	86 596	47 284	132 232	D
33211	Forging and stamping	3	39	10	999	39 473	736	1 533	24 300	86 596	47 284	132 232	D
332116	Metal stamping	3	27	8	f	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing	—	19	7	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing	—	19	7	g	D	D	D	D	D	D	D	D
332211	Cutlery and flatware (except precious) manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	2	204	69	4 660	184 144	3 378	6 575	114 013	384 736	285 577	672 093	11 612
33231	Plate work and fabricated structural product manufacturing	3	45	19	1 075	42 345	733	1 413	24 021	87 444	59 538	153 873	2 726
332312	Fabricated structural metal manufacturing	2	35	15	905	35 502	607	1 161	19 752	75 510	50 850	133 246	2 240
33232	Ornamental and architectural metal products manufacturing	2	159	50	3 585	141 799	2 645	5 162	89 992	297 292	226 039	518 220	8 886
332321	Metal window and door manufacturing	3	14	7	264	8 609	184	335	4 361	16 829	13 334	30 173	358
332322	Sheet metal work manufacturing	2	99	35	2 766	110 673	2 091	4 138	72 653	232 283	180 104	410 328	6 864
332323	Ornamental and architectural metal work manufacturing	3	46	8	555	22 517	370	689	12 978	48 180	32 601	77 719	1 664
3324	Boiler, tank, and shipping container manufacturing	2	27	15	g	D	D	D	D	D	D	D	D
33241	Power boiler and heat exchanger manufacturing	—	6	5	e	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing	—	6	5	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing	5	7	5	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing	5	7	5	f	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	14	5	e	D	D	D	D	D	D	D	D
3325	Hardware manufacturing	1	5	1	313	7 847	247	490	4 594	19 787	7 109	26 027	D
33251	Hardware manufacturing	1	5	1	313	7 847	247	490	4 594	19 787	7 109	26 027	D
332510	Hardware manufacturing	1	5	1	313	7 847	247	490	4 594	19 787	7 109	26 027	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	490	91	6 092	264 988	4 415	8 824	169 994	526 540	219 813	749 832	36 798
33271	Machine shops	3	414	61	4 413	194 466	3 157	6 297	122 890	370 691	157 936	531 339	19 691
332710	Machine shops	3	414	61	4 413	194 466	3 157	6 297	122 890	370 691	157 936	531 339	19 691
33272	Turned product and screw, nut, and bolt manufacturing	1	76	30	1 679	70 522	1 258	2 527	47 104	155 849	61 877	218 493	17 107
332721	Precision turned product manufacturing	2	61	25	1 228	50 520	941	1 912	35 366	115 096	33 866	148 383	16 284
332722	Bolt, nut, screw, rivet, and washer manufacturing	1	15	5	451	20 002	317	615	11 738	40 753	28 011	70 110	823

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities	2	'125	'35	'2 393	'85 537	'1 826	'3 579	'55 063	'159 081	'51 313	'212 714	9 063
33281	Coating, engraving, heat treating, and allied activities ..	2	'125	'35	'2 393	'85 537	'1 826	'3 579	'55 063	'159 081	'51 313	'212 714	9 063
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	'55	'14	'1 176	'44 084	'931	'1 739	'29 494	'80 353	'28 499	'110 903	6 520
332813	Electroplating, plating, polishing, anodizing, and coloring	3	60	19	1 093	36 030	806	1 635	22 232	67 976	18 867	87 061	2 399
3329	Other fabricated metal product manufacturing	—	108	40	4 562	213 210	2 510	4 685	81 074	528 530	291 206	825 437	17 982
33291	Metal valve manufacturing	—	19	10	1 204	55 928	645	1 311	22 135	153 738	82 725	239 633	4 845
332911	Industrial valve manufacturing	—	9	6	708	35 107	340	696	13 826	90 717	57 510	149 051	2 506
332913	Plumbing fixture fitting and trim manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	89	30	3 358	157 282	1 865	3 374	58 939	374 792	208 481	585 804	13 137
332993	Ammunition (except small arms) manufacturing	—	3	2	g	D	D	D	D	D	D	D	D
332994	Small arms manufacturing ...	—	3	2	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	2	71	23	1 500	58 782	1 062	2 066	34 818	119 257	86 385	208 156	4 594
333	Machinery manufacturing	3	417	158	20 055	1 039 898	10 588	20 069	403 957	1 990 710	1 666 584	3 653 915	134 190
3331	Agriculture, construction, and mining machinery manufacturing	5	12	5	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing	3	103	47	9 841	569 707	4 475	7 923	185 520	1 061 202	956 996	2 008 137	77 706
33322	Plastics and rubber industry machinery manufacturing	4	11	7	f	D	D	D	D	D	D	D	1 796
333220	Plastics and rubber industry machinery manufacturing ..	4	11	7	f	D	D	D	D	D	D	D	1 796
33329	Other industrial machinery manufacturing	3	88	40	i	D	D	D	D	D	D	D	75 887
333293	Printing machinery and equipment manufacturing ..	—	11	8	1 580	84 356	735	1 166	30 826	166 090	195 549	327 314	D
333294	Food product machinery manufacturing	1	10	3	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing	3	20	13	h	D	D	D	D	D	D	D	52 329
333298	All other industrial machinery manufacturing	5	33	12	2 319	117 509	1 249	2 373	37 580	226 607	157 114	395 836	13 623
3333	Commercial and service industry machinery manufacturing	2	71	30	2 673	125 868	1 516	3 097	51 859	212 651	177 439	383 707	8 758
33331	Commercial and service industry machinery manufacturing	2	71	30	2 673	125 868	1 516	3 097	51 859	212 651	177 439	383 707	8 758
333314	Optical instrument and lens manufacturing	—	32	15	1 782	88 671	1 025	2 085	35 605	123 819	100 638	219 060	D
333319	Other commercial and service industry machinery manufacturing	5	25	11	662	26 778	368	752	12 019	62 431	51 679	113 468	2 265
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	5	27	12	1 255	48 967	777	1 579	23 336	111 203	117 820	228 472	2 776
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	5	27	12	1 255	48 967	777	1 579	23 336	111 203	117 820	228 472	2 776
333411	Air purification equipment manufacturing	7	7	4	e	D	D	D	D	D	D	D	1 023
333414	Heating equipment (except warm air furnaces) manufacturing	1	8	4	e	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	7	9	2	521	18 113	412	816	13 179	44 222	50 401	94 722	971

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing	3	94	18	1 462	65 976	1 057	2 236	41 208	114 130	71 993	188 088	7 677
33351	Metalworking machinery manufacturing	3	94	18	1 462	65 976	1 057	2 236	41 208	114 130	71 993	188 088	7 677
333511	Industrial mold manufacturing	7	13	4	292	13 867	208	432	7 868	28 184	12 376	40 367	D
333515	Cutting tool and machine tool accessory manufacturing ..	1	26	5	576	22 638	494	1 088	19 421	38 735	19 893	59 855	2 478
3339	Other general purpose machinery manufacturing	1	102	43	4 412	209 430	2 522	4 738	91 870	454 237	304 123	769 788	34 671
33391	Pump and compressor manufacturing	1	10	6	957	47 540	529	1 002	21 237	100 435	82 360	185 281	D
333911	Pump and pumping equipment manufacturing ..	—	5	3	427	20 093	295	546	10 658	65 094	52 085	117 576	D
333912	Air and gas compressor manufacturing	3	5	3	530	27 447	234	456	10 579	35 341	30 275	67 705	D
33392	Material handling equipment manufacturing	5	13	7	491	19 083	331	600	10 235	35 457	24 408	59 144	D
333922	Conveyor and conveying equipment manufacturing ..	1	7	3	256	9 748	176	280	5 534	19 195	8 767	27 242	D
33399	All other general purpose machinery manufacturing	1	79	30	2 964	142 807	1 662	3 136	60 398	318 345	197 355	525 363	27 992
333993	Packaging machinery manufacturing	2	10	4	303	16 937	168	341	6 583	26 710	13 241	39 338	2 081
333994	Industrial process furnace and oven manufacturing ...	1	12	6	586	25 037	328	502	10 224	38 622	22 393	62 175	D
333999	All other miscellaneous general purpose machinery manufacturing	1	43	15	1 688	83 399	914	1 812	35 207	215 079	130 984	355 410	18 181
334	Computer and electronic product manufacturing	1	733	380	66 017	3 710 822	27 074	53 171	1 049 530	12 696 167	7 912 141	21 027 555	485 643
3341	Computer and peripheral equipment manufacturing	—	82	35	5 482	351 342	2 077	4 282	85 711	1 357 259	1 548 175	2 869 370	59 961
33411	Computer and peripheral equipment manufacturing	—	82	35	5 482	351 342	2 077	4 282	85 711	1 357 259	1 548 175	2 869 370	59 961
334111	Electronic computer manufacturing	1	19	10	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing	—	8	4	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	3	51	21	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	1	92	63	i	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	1	39	31	6 404	384 271	2 046	4 271	93 171	1 617 713	1 573 878	3 495 897	56 657
334210	Telephone apparatus manufacturing	1	39	31	6 404	384 271	2 046	4 271	93 171	1 617 713	1 573 878	3 495 897	56 657
33422	Radio and television broadcasting and wireless communications equipment manufacturing	5	38	25	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	5	38	25	g	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing	7	15	7	621	27 211	240	449	6 601	60 632	47 817	108 286	1 443
334290	Other communications equipment manufacturing ..	7	15	7	621	27 211	240	449	6 601	60 632	47 817	108 286	1 443
3343	Audio and video equipment manufacturing	1	17	8	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	1	17	8	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	1	17	8	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	260	134	17 592	815 668	9 794	18 950	346 486	3 719 963	1 855 095	5 643 948	146 320
33441	Semiconductor and other electronic component manufacturing	—	260	134	17 592	815 668	9 794	18 950	346 486	3 719 963	1 855 095	5 643 948	146 320
334411	Electron tube manufacturing ..	—	6	3	630	27 428	454	920	17 886	32 964	14 419	46 662	1 177
334412	Bare printed circuit board manufacturing	—	41	21	2 676	90 760	1 644	2 808	52 813	156 446	119 135	274 968	6 948
334413	Semiconductor and related device manufacturing	—	61	35	6 601	374 725	3 615	6 956	149 442	2 812 735	1 106 576	3 974 307	107 528
334416	Electronic coil, transformer, and other inductor manufacturing	1	14	2	297	10 533	176	349	4 296	19 833	8 678	31 127	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing—Con.												
33441	Semiconductor and other electronic component manufacturing—Con.												
334417	Electronic connector manufacturing	2	13	9	579	22 703	382	815	11 497	48 682	20 155	70 120	907
334418	Printed circuit assembly (electronic assembly) manufacturing	2	53	38	3 245	135 134	1 773	3 499	51 138	334 327	366 958	705 621	17 255
334419	Other electronic component manufacturing	—	68	25	3 508	151 795	1 700	3 500	57 194	311 994	216 087	535 072	12 223
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	255	132	31 838	1 927 055	10 750	20 970	444 542	5 332 774	2 546 387	7 956 611	198 768
33451	Navigational, measuring, electromedical, and control instruments manufacturing	1	255	132	31 838	1 927 055	10 750	20 970	444 542	5 332 774	2 546 387	7 956 611	198 768
334510	Electromedical and electrotherapeutic apparatus manufacturing	2	35	19	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	35	16	10 590	727 537	3 105	5 366	139 626	2 113 246	1 006 137	3 058 589	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	6	6	4	473	17 184	242	494	6 551	63 081	48 002	110 588	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	—	34	24	4 088	196 754	1 751	3 446	57 235	476 740	254 912	748 235	9 876
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	1	40	20	4 907	290 159	1 476	2 755	73 009	498 214	367 685	898 056	39 632
334516	Analytical laboratory instrument manufacturing	—	35	14	2 473	139 480	883	1 842	33 983	332 167	229 687	563 016	D
334517	Irradiation apparatus manufacturing	—	14	10	g	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	1	46	19	2 511	144 305	1 004	1 994	40 764	271 909	144 752	422 737	6 087
3346	Manufacturing and reproducing magnetic and optical media	3	27	8	1 229	45 020	887	1 814	29 233	104 216	127 185	232 157	4 461
33461	Manufacturing and reproducing magnetic and optical media	3	27	8	1 229	45 020	887	1 814	29 233	104 216	127 185	232 157	4 461
334611	Software reproducing	—	5	3	461	18 279	363	720	12 203	39 946	21 132	61 094	1 004
334612	Prerecorded compact disc (except software), tape, and record reproducing	8	16	4	f	D	D	D	D	D	D	D	2 037
335	Electrical equipment, appliance, and component manufacturing	1	158	74	11 324	480 906	6 473	11 929	197 130	1 167 546	731 393	1 914 321	57 405
3351	Electric lighting equipment manufacturing	1	20	8	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	1	19	8	f	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing	4	7	3	275	10 121	187	378	5 437	17 466	12 404	29 405	449
3353	Electrical equipment manufacturing	3	54	22	3 344	168 263	1 382	2 479	46 032	369 028	242 524	621 452	9 386
33531	Electrical equipment manufacturing	3	54	22	3 344	168 263	1 382	2 479	46 032	369 028	242 524	621 452	9 386
335312	Motor and generator manufacturing	—	14	6	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing ..	—	6	3	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	4	30	13	2 205	113 370	815	1 468	23 712	227 620	155 337	385 203	5 188

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing	1	80	42	6 948	277 143	4 374	7 933	132 201	699 457	407 426	1 113 943	45 461
33591	Battery manufacturing	1	6	4	400	16 490	324	644	11 577	25 439	16 498	41 320	1 185
33592	Communication and energy wire and cable manufacturing	—	16	11	1 259	59 432	413	821	18 366	251 431	55 513	309 328	D
335921	Fiber optic cable manufacturing	—	7	6	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing	—	9	5	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing	—	23	13	D	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing	—	21	12	h	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	3	35	14	g	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing	3	32	13	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	117	42	7 982	475 128	4 634	9 403	247 999	1 647 541	1 744 614	3 392 045	D
3362	Motor vehicle body and trailer manufacturing	1	18	8	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	1	18	8	e	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing	—	10	6	e	D	D	D	D	D	D	D	410
3363	Motor vehicle parts manufacturing	2	50	19	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing	—	10	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing	—	10	1	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	3	15	5	317	18 383	168	345	7 127	65 486	69 690	135 302	D
336322	Other motor vehicle electrical and electronic equipment manufacturing	3	15	5	317	18 383	168	345	7 127	65 486	69 690	135 302	D
33634	Motor vehicle brake system manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	1	8	4	e	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	1	8	4	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	1	7	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	1	7	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	13	9	i	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	13	9	i	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	—	10	9	i	D	D	D	D	D	D	D	D
3366	Ship and boat building	4	26	3	e	D	D	D	D	D	D	D	D
33661	Ship and boat building	4	26	3	e	D	D	D	D	D	D	D	D
336612	Boat building	3	18	3	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	2	266	49	4 055	145 850	2 976	6 003	88 284	329 104	234 039	562 378	10 752
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	195	25	2 216	74 207	1 601	3 225	43 996	148 690	102 160	250 078	5 783
33711	Wood kitchen cabinet and countertop manufacturing	3	109	10	892	30 569	654	1 297	18 921	53 554	31 839	86 721	1 672
337110	Wood kitchen cabinet and countertop manufacturing	3	109	10	892	30 569	654	1 297	18 921	53 554	31 839	86 721	1 672
33712	Household and institutional furniture manufacturing	1	86	15	1 324	43 638	947	1 928	25 075	95 136	70 321	163 357	4 111
337122	Nonupholstered wood household furniture manufacturing	2	55	8	524	15 389	416	835	10 540	35 119	25 374	58 722	996
337127	Institutional furniture manufacturing	—	10	4	603	22 742	383	807	11 043	48 267	34 713	82 583	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing	3	55	18	1 170	46 363	845	1 677	27 530	94 798	56 414	150 522	D
33721	Office furniture (including fixtures) manufacturing	3	55	18	1 170	46 363	845	1 677	27 530	94 798	56 414	150 522	D
337212	Custom architectural woodwork and millwork manufacturing	1	31	10	f	D	D	D	D	D	D	D	1 540
337215	Showcase, partition, shelving, and locker manufacturing	2	17	7	e	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing	—	16	6	669	25 280	530	1 101	16 758	85 616	75 465	161 778	D
33791	Mattress manufacturing	—	9	5	f	D	D	D	D	D	D	D	D
337910	Mattress manufacturing	—	9	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	3	618	172	19 396	841 111	10 912	21 712	329 112	2 180 389	1 146 749	3 361 743	93 714
3391	Medical equipment and supplies manufacturing	3	253	87	11 048	508 740	6 132	12 421	193 862	1 414 566	526 270	1 975 043	68 215
33911	Medical equipment and supplies manufacturing	3	253	87	11 048	508 740	6 132	12 421	193 862	1 414 566	526 270	1 975 043	68 215
339111	Laboratory apparatus and furniture manufacturing	1	23	10	1 350	70 962	534	1 139	19 896	140 647	86 752	229 555	D
339112	Surgical and medical instrument manufacturing	3	73	43	5 459	273 884	2 697	5 242	88 357	915 776	279 173	1 224 871	47 763
339113	Surgical appliance and supplies manufacturing	2	36	19	2 793	113 971	1 845	3 942	52 338	289 412	111 054	402 054	11 546
339115	Ophthalmic goods manufacturing	—	8	3	271	10 557	167	347	5 217	4 770	33 959	39 734	D
339116	Dental laboratories	7	101	11	1 121	37 584	860	1 706	27 321	60 254	14 154	73 945	D
3399	Other miscellaneous manufacturing	2	365	85	8 348	332 371	4 780	9 291	135 250	765 823	620 479	1 386 700	25 499
33991	Jewelry and silverware manufacturing	—	35	7	779	42 388	253	512	7 878	58 882	142 642	206 726	1 245
339912	Silverware and holloware manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing	4	28	9	f	D	D	D	D	D	D	D	1 856
339920	Sporting and athletic goods manufacturing	4	28	9	f	D	D	D	D	D	D	D	1 856
33994	Office supplies (except paper) manufacturing	1	13	4	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing	3	100	16	1 668	61 723	992	1 790	27 812	120 276	89 885	213 844	6 180
339950	Sign manufacturing	3	100	16	1 668	61 723	992	1 790	27 812	120 276	89 885	213 844	6 180
33999	All other miscellaneous manufacturing	2	175	45	4 497	175 346	2 739	5 516	78 919	457 462	289 129	738 794	D
339991	Gasket, packing, and sealing device manufacturing	3	16	7	1 392	55 926	782	1 576	24 076	145 364	75 526	221 287	D
339992	Musical instrument manufacturing	1	24	8	509	21 083	389	786	13 679	60 414	21 867	82 427	D
339999	All other miscellaneous manufacturing	1	126	25	2 220	85 589	1 285	2 565	34 250	224 482	174 112	390 247	10 330
	Boston-Quincy, MA Metropolitan Division												
31-33	Manufacturing	1	1 901	624	63 740	2 756 960	38 423	76 327	1 257 766	7 818 963	6 123 773	14 005 713	368 841
311	Food manufacturing	1	200	67	6 255	197 023	4 205	8 194	108 456	645 752	783 804	1 432 343	21 527
3114	Fruit and vegetable preserving and specialty food manufacturing	—	8	7	330	13 564	216	468	6 521	116 901	39 159	159 189	2 966
3115	Dairy product manufacturing	—	8	3	f	D	D	D	D	D	D	D	1 177
31151	Dairy product (except frozen) manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	—	14	9	938	32 252	675	1 469	18 964	83 822	188 560	271 678	1 759
31161	Animal slaughtering and processing	—	14	9	938	32 252	675	1 469	18 964	83 822	188 560	271 678	1 759
311612	Meat processed from carcasses	—	9	6	f	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	—	14	7	864	24 885	673	1 149	14 732	99 620	166 193	265 672	2 369
31171	Seafood product preparation and packaging	—	14	7	864	24 885	673	1 149	14 732	99 620	166 193	265 672	2 369
311712	Fresh and frozen seafood processing	—	12	6	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Boston-Quincy, MA Metropolitan Division—Con.												
311	Food manufacturing—Con.												
3118	Bakeries and tortilla manufacturing	3	108	29	2 496	64 181	1 630	3 079	38 765	166 079	91 704	257 077	9 198
31181	Bread and bakery product manufacturing	3	98	26	2 385	59 898	1 565	2 953	37 031	153 309	81 738	234 326	7 904
311811	Retail bakeries	3	71	13	784	12 010	387	512	5 642	24 043	9 787	33 801	681
311812	Commercial bakeries	3	22	8	1 349	39 971	970	1 975	25 267	112 727	59 433	171 426	6 887
311813	Frozen cakes, pies, and other pastries manufacturing	1	5	5	252	7 917	208	466	6 122	16 539	12 518	29 099	336
3119	Other food manufacturing	4	27	10	742	23 912	543	1 055	14 184	80 319	81 536	161 640	2 050
31199	All other food manufacturing ...	1	18	6	503	14 249	412	764	10 153	42 672	46 939	89 570	1 223
311991	Perishable prepared food manufacturing	—	6	5	283	6 406	235	458	4 522	16 157	19 817	35 938	689
312	Beverage and tobacco product manufacturing	—	7	5	724	33 000	490	1 099	20 102	201 224	233 743	436 712	14 094
3121	Beverage manufacturing	—	7	5	724	33 000	490	1 099	20 102	201 224	233 743	436 712	14 094
31211	Soft drink and ice manufacturing	1	2	2	e	D	D	D	D	D	D	D	D
31212	Breweries	—	5	3	e	D	D	D	D	D	D	D	D
312120	Breweries	—	5	3	e	D	D	D	D	D	D	D	D
313	Textile mills	1	27	9	831	34 214	585	1 216	18 008	67 396	105 448	175 680	D
3132	Fabric mills	2	12	4	470	19 850	339	747	11 525	28 462	28 223	60 619	D
31323	Nonwoven fabric mills	—	4	2	331	15 465	241	562	9 121	20 820	22 589	47 059	1 646
313230	Nonwoven fabric mills	—	4	2	331	15 465	241	562	9 121	20 820	22 589	47 059	1 646
3133	Textile and fabric finishing and fabric coating mills	1	13	5	e	D	D	D	D	D	D	D	D
314	Textile product mills	1	43	12	713	19 629	525	1 039	11 010	46 586	66 571	113 414	D
3141	Textile furnishings mills	1	17	4	e	D	D	D	D	D	D	D	D
31412	Curtain and linen mills	1	16	4	e	D	D	D	D	D	D	D	D
314121	Curtain and drapery mills	1	15	4	315	8 172	241	448	4 401	22 193	44 672	67 135	D
3149	Other textile product mills	2	26	8	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing	2	53	15	1 625	57 216	1 138	2 084	21 378	130 707	155 783	278 626	D
3152	Cut and sew apparel manufacturing	1	40	12	1 434	52 222	967	1 743	17 299	124 838	140 340	257 383	D
31522	Men's and boys' cut and sew apparel manufacturing	6	3	3	e	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing	—	14	5	902	40 943	517	947	9 752	104 547	128 985	225 351	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing	—	16	5	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing	—	6	4	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing	—	6	4	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	44	8	730	24 588	453	923	13 297	58 968	37 464	95 343	4 223
3219	Other wood product manufacturing	2	33	8	662	22 237	400	813	11 729	53 304	29 809	82 000	3 983
32199	All other wood product manufacturing	2	13	6	486	16 213	278	593	8 556	40 926	13 554	53 389	3 115
321999	All other miscellaneous wood product manufacturing	2	10	5	e	D	D	D	D	D	D	D	D
322	Paper manufacturing	3	26	15	1 549	64 252	1 048	2 190	34 613	164 885	178 421	341 919	13 361
3222	Converted paper product manufacturing	2	23	12	1 376	56 103	920	1 941	28 927	133 137	146 531	278 877	10 910
32221	Paperboard container manufacturing	1	7	4	305	12 742	230	473	7 488	27 360	40 556	68 081	D
32222	Paper bag and coated and treated paper manufacturing ..	3	6	3	698	32 584	415	900	15 327	82 048	78 393	160 091	7 802
322222	Coated and laminated paper manufacturing	3	6	3	698	32 584	415	900	15 327	82 048	78 393	160 091	7 802

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Boston-Quincy, MA Metropolitan Division—Con.												
323	Printing and related support activities	2	291	67	5 372	219 859	3 717	7 371	129 181	444 086	241 489	684 837	25 634
3231	Printing and related support activities	2	291	67	5 372	219 859	3 717	7 371	129 181	444 086	241 489	684 837	25 634
32311	Printing	2	254	61	4 780	195 568	3 262	6 481	112 450	395 142	231 158	625 333	23 190
323110	Commercial lithographic printing	1	140	43	3 388	146 901	2 265	4 634	82 513	284 552	176 046	459 317	18 265
323114	Quick printing	4	54	6	446	15 168	310	601	9 432	36 994	15 676	52 661	1 726
323117	Books printing	3	6	2	275	9 961	230	419	7 710	22 853	13 105	36 177	358
32312	Support activities for printing	1	37	6	592	24 291	455	890	16 731	48 944	10 331	59 504	2 444
323121	Tradebinding and related work	1	13	3	312	11 708	244	489	8 172	20 424	3 927	24 357	1 795
323122	Prepress services	1	24	3	280	12 583	211	401	8 559	28 520	6 404	35 147	649
324	Petroleum and coal products manufacturing	—	8	2	291	16 269	214	499	10 719	60 028	82 697	138 248	D
3241	Petroleum and coal products manufacturing	—	8	2	291	16 269	214	499	10 719	60 028	82 697	138 248	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	7	2	e	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	76	31	4 216	206 338	1 983	3 752	74 835	'1 223 038	'379 028	'1 617 776	55 024
3254	Pharmaceutical and medicine manufacturing	1	21	12	2 907	143 870	1 304	2 546	50 881	1 022 263	129 725	1 166 961	D
32541	Pharmaceutical and medicine manufacturing	1	21	12	2 907	143 870	1 304	2 546	50 881	1 022 263	129 725	1 166 961	D
325412	Pharmaceutical preparation manufacturing	4	10	5	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing	2	3	3	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	4	3	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	—	14	6	315	16 373	156	302	6 081	52 689	45 044	97 312	1 577
3259	Other chemical product and preparation manufacturing	6	17	4	502	20 718	257	354	6 700	38 298	56 730	96 089	1 672
32599	All other chemical product and preparation manufacturing ..	8	11	3	374	14 838	192	226	4 437	25 421	42 583	68 879	1 354
326	Plastics and rubber products manufacturing	2	59	33	2 399	94 672	1 629	3 480	49 722	228 377	219 637	448 316	9 677
3261	Plastics product manufacturing ..	2	42	24	1 649	66 144	1 149	2 434	35 838	152 323	148 241	299 865	D
32619	Other plastics product manufacturing	2	31	18	1 337	55 332	879	1 822	27 163	124 531	112 336	235 122	6 357
326199	All other plastics product manufacturing	2	31	18	1 337	55 332	879	1 822	27 163	124 531	112 336	235 122	6 357
3262	Rubber product manufacturing ..	2	17	9	750	28 528	480	1 046	13 884	76 054	71 396	148 451	D
32629	Other rubber product manufacturing	2	13	8	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use	—	2	2	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing	3	11	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	3	57	18	1 376	64 214	976	2 155	41 479	143 485	92 089	234 036	7 180
3273	Cement and concrete product manufacturing	4	27	14	986	47 307	714	1 583	31 096	91 245	69 375	159 136	4 604
32732	Ready-mix concrete manufacturing	7	10	6	495	26 612	403	918	19 380	46 432	42 228	88 660	2 745
327320	Ready-mix concrete manufacturing	7	10	6	495	26 612	403	918	19 380	46 432	42 228	88 660	2 745
32739	Other concrete product manufacturing	—	9	4	e	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing	—	9	4	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	2	21	7	548	21 015	431	909	13 560	39 892	26 255	66 343	D
3315	Foundries	2	12	4	e	D	D	D	D	D	D	D	558
33151	Ferrous metal foundries	1	5	4	308	11 720	252	550	7 912	23 439	9 720	32 764	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Boston-Quincy, MA Metropolitan Division—Con.												
332	Fabricated metal product manufacturing	1	302	90	8 220	364 022	5 703	11 632	215 905	889 533	439 674	1 337 599	45 808
3321	Forging and stamping.....	2	12	3	345	12 325	249	514	8 218	28 908	9 917	37 545	D
33211	Forging and stamping.....	2	12	3	345	12 325	249	514	8 218	28 908	9 917	37 545	D
332116	Metal stamping	2	10	3	e	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing	—	4	2	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing	—	4	2	g	D	D	D	D	D	D	D	D
332211	Cutlery and flatware (except precious) manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	2	71	28	1 908	79 548	1 364	2 773	49 012	164 787	128 208	294 053	4 126
33231	Plate work and fabricated structural product manufacturing	—	14	7	349	15 687	203	428	7 617	27 197	16 738	48 088	946
332312	Fabricated structural metal manufacturing	—	11	6	319	14 724	179	386	6 980	25 940	15 721	45 816	D
33232	Ornamental and architectural metal products manufacturing	2	57	21	1 559	63 861	1 161	2 345	41 395	137 590	111 470	245 965	3 180
332322	Sheet metal work manufacturing	1	27	13	1 109	48 113	838	1 714	31 525	106 632	86 099	192 631	2 193
332323	Ornamental and architectural metal work manufacturing ..	4	21	5	317	11 358	222	404	7 257	22 164	19 106	38 299	816
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	1	121	24	1 676	72 297	1 198	2 299	45 382	155 327	69 588	228 459	9 971
33271	Machine shops	2	99	15	1 088	47 501	772	1 468	30 053	105 392	41 408	147 911	6 365
332710	Machine shops	2	99	15	1 088	47 501	772	1 468	30 053	105 392	41 408	147 911	6 365
33272	Turned product and screw, nut, and bolt manufacturing	—	22	9	588	24 796	426	831	15 329	49 935	28 180	80 548	3 606
332721	Precision turned product manufacturing	—	18	7	313	12 221	239	474	8 261	25 861	9 428	35 778	3 393
332722	Bolt, nut, screw, rivet, and washer manufacturing	—	4	2	275	12 575	187	357	7 068	24 074	18 752	44 770	213
3328	Coating, engraving, heat treating, and allied activities	1	39	13	948	34 497	735	1 430	22 386	57 411	18 372	77 734	5 485
33281	Coating, engraving, heat treating, and allied activities ..	1	39	13	948	34 497	735	1 430	22 386	57 411	18 372	77 734	5 485
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	18	6	586	22 804	442	835	14 578	35 050	11 985	48 846	4 300
332813	Electroplating, plating, polishing, anodizing, and coloring	1	19	6	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	—	40	15	1 670	72 235	977	1 869	32 599	176 261	95 773	275 826	6 522
33291	Metal valve manufacturing	—	5	4	713	33 439	364	742	12 530	98 841	42 349	143 514	3 221
332911	Industrial valve manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	1	35	11	957	38 796	613	1 127	20 069	77 420	53 424	132 312	3 301
332999	All other miscellaneous fabricated metal product manufacturing	1	28	9	777	30 803	514	940	16 666	60 062	44 095	105 447	D
333	Machinery manufacturing	2	107	40	3 647	173 804	1 958	3 623	67 000	338 543	230 672	575 017	21 272
3332	Industrial machinery manufacturing	—	23	9	1 401	67 950	680	1 032	19 325	113 139	90 285	208 770	D
33329	Other industrial machinery manufacturing	—	20	8	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing	—	7	2	907	45 997	399	502	9 363	64 588	62 487	133 056	D
3333	Commercial and service industry machinery manufacturing	3	13	7	307	14 449	172	368	6 664	32 869	17 605	50 777	1 621
33331	Commercial and service industry machinery manufacturing	3	13	7	307	14 449	172	368	6 664	32 869	17 605	50 777	1 621

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Boston-Quincy, MA Metropolitan Division—Con.												
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing	7	24	5	434	20 135	318	702	11 290	38 604	20 629	59 933	3 183
33351	Metalworking machinery manufacturing	7	24	5	434	20 135	318	702	11 290	38 604	20 629	59 933	3 183
3339	Other general purpose machinery manufacturing	1	31	15	1 274	59 836	654	1 235	24 461	131 764	81 072	212 711	8 478
33399	All other general purpose machinery manufacturing	—	26	11	1 024	49 588	515	903	19 394	112 302	68 918	181 182	D
333999	All other miscellaneous general purpose machinery manufacturing	—	11	6	767	35 987	362	603	13 211	85 796	52 908	139 022	7 095
334	Computer and electronic product manufacturing	—	143	72	11 409	609 407	4 681	9 455	180 731	1 887 543	1 818 791	3 712 261	90 269
3341	Computer and peripheral equipment manufacturing	—	19	10	g	D	D	D	D	D	D	D	26 944
33411	Computer and peripheral equipment manufacturing	—	19	10	g	D	D	D	D	D	D	D	26 944
334112	Computer storage device manufacturing	—	2	1	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	13	5	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	4	9	6	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	3	3	2	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	3	3	2	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	2	51	27	1 971	87 567	1 224	2 468	37 580	234 962	163 216	397 430	21 616
33441	Semiconductor and other electronic component manufacturing	2	51	27	1 971	87 567	1 224	2 468	37 580	234 962	163 216	397 430	21 616
334413	Semiconductor and related device manufacturing	2	12	7	631	38 495	361	775	16 062	121 916	46 846	169 213	18 755
334418	Printed circuit assembly (electronic assembly) manufacturing	2	10	8	603	21 794	377	757	8 710	56 745	88 953	145 575	1 845
334419	Other electronic component manufacturing	—	16	7	525	19 512	327	621	8 078	37 592	18 370	56 117	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	51	26	6 592	365 681	2 072	4 075	88 749	624 395	388 114	1 054 711	38 575
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	51	26	6 592	365 681	2 072	4 075	88 749	624 395	388 114	1 054 711	38 575
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	3	10	3	e	D	D	D	D	D	D	D	552
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	—	8	7	1 721	87 990	772	1 566	25 638	210 790	88 787	309 207	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	—	7	5	3 378	199 937	859	1 603	47 644	255 700	192 525	483 425	D
334516	Analytical laboratory instrument manufacturing ..	—	8	3	472	21 141	144	331	4 168	47 582	47 445	92 908	D
334519	Other measuring and controlling device manufacturing	—	6	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	—	46	23	4 204	159 279	2 743	5 177	74 772	409 966	283 155	696 223	20 620
3351	Electric lighting equipment manufacturing	1	9	5	509	18 007	336	731	9 073	37 048	20 361	57 327	1 061
33512	Lighting fixture manufacturing ..	1	9	5	509	18 007	336	731	9 073	37 048	20 361	57 327	1 061
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	1	3	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Boston-Quincy, MA Metropolitan Division—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing	-	17	6	856	38 822	472	991	12 704	97 334	46 548	144 409	1 157
33531	Electrical equipment manufacturing	-	17	6	856	38 822	472	991	12 704	97 334	46 548	144 409	1 157
335313	Switchgear and switchboard apparatus manufacturing ...	-	4	2	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	-	7	3	505	21 598	301	627	6 473	49 117	28 207	77 457	926
3359	Other electrical equipment and component manufacturing	-	20	12	2 839	102 450	1 935	3 455	52 995	275 584	216 246	494 487	18 402
33593	Wiring device manufacturing ...	-	6	5	g	D	D	D	D	D	D	D	5 994
335931	Current-carrying wiring device manufacturing	-	6	5	g	D	D	D	D	D	D	D	5 994
336	Transportation equipment manufacturing	2	40	9	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	2	18	6	572	20 658	423	946	13 943	34 848	44 538	82 998	D
337	Furniture and related product manufacturing	1	101	23	1 632	59 684	1 224	2 469	36 630	151 100	106 860	258 490	3 701
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	68	13	774	26 807	548	1 091	14 953	54 027	28 271	82 141	1 531
33711	Wood kitchen cabinet and countertop manufacturing	2	42	6	433	16 326	300	588	9 223	30 016	15 469	45 415	1 013
337110	Wood kitchen cabinet and countertop manufacturing ..	2	42	6	433	16 326	300	588	9 223	30 016	15 469	45 415	1 013
33712	Household and institutional furniture manufacturing	1	26	7	341	10 481	248	503	5 730	24 011	12 802	36 726	518
3372	Office furniture (including fixtures) manufacturing	3	24	5	268	10 035	206	393	6 542	19 045	9 882	28 911	D
33721	Office furniture (including fixtures) manufacturing	3	24	5	268	10 035	206	393	6 542	19 045	9 882	28 911	D
3379	Other furniture related product manufacturing	-	9	5	590	22 842	470	985	15 135	78 028	68 707	147 438	D
33791	Mattress manufacturing	-	6	4	552	21 352	442	925	14 368	74 208	65 990	140 904	1 708
337910	Mattress manufacturing	-	6	4	552	21 352	442	925	14 368	74 208	65 990	140 904	1 708
339	Miscellaneous manufacturing	2	234	73	6 724	297 242	3 714	7 055	108 359	612 769	559 644	1 199 873	24 481
3391	Medical equipment and supplies manufacturing	2	80	31	3 225	150 118	1 769	3 340	55 429	319 233	247 775	591 396	16 529
33911	Medical equipment and supplies manufacturing	2	80	31	3 225	150 118	1 769	3 340	55 429	319 233	247 775	591 396	16 529
339111	Laboratory apparatus and furniture manufacturing	3	6	4	312	14 249	142	294	4 473	36 703	17 535	53 164	1 005
339112	Surgical and medical instrument manufacturing ..	2	26	15	1 789	94 125	866	1 668	29 199	180 761	149 915	354 388	10 513
339113	Surgical appliance and supplies manufacturing	3	10	7	765	28 768	524	893	14 318	92 652	47 310	140 890	3 693
3399	Other miscellaneous manufacturing	2	154	42	3 499	147 124	1 945	3 715	52 930	293 536	311 869	608 477	7 952
33991	Jewelry and silverware manufacturing	-	24	6	694	39 302	191	388	6 094	54 246	136 164	195 865	D
339912	Silverware and hollowware manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing	5	14	7	730	30 828	389	663	10 877	55 539	54 481	108 933	1 732
339920	Sporting and athletic goods manufacturing	5	14	7	730	30 828	389	663	10 877	55 539	54 481	108 933	1 732
33995	Sign manufacturing	3	48	12	843	31 031	540	969	14 425	55 574	39 057	95 889	D
339950	Sign manufacturing	3	48	12	843	31 031	540	969	14 425	55 574	39 057	95 889	D
33999	All other miscellaneous manufacturing	2	59	16	1 089	42 009	734	1 516	19 434	115 374	71 735	184 768	3 519
339992	Musical instrument manufacturing	-	6	4	292	12 132	209	436	6 715	42 264	14 083	58 192	D
339999	All other miscellaneous manufacturing	3	47	9	615	23 303	391	807	9 488	60 447	47 106	103 415	2 136

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division												
31-33	Manufacturing	2	2 189	723	90 711	4 606 151	46 231	91 640	1 637 156	13 764 714	8 859 031	22 747 554	626 091
311	Food manufacturing	1	177	45	4 894	168 861	3 315	6 282	95 141	563 559	748 636	1 307 964	19 261
3113	Sugar and confectionery product manufacturing	—	16	3	804	26 532	674	1 389	19 094	65 661	44 784	107 996	1 023
31133	Confectionery manufacturing from purchased chocolate ...	—	9	2	393	13 415	334	725	10 337	44 209	30 390	74 121	D
311330	Confectionery manufacturing from purchased chocolate ..	—	9	2	393	13 415	334	725	10 337	44 209	30 390	74 121	D
31134	Nonchocolate confectionery manufacturing	—	6	1	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing	—	6	1	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	1	14	3	354	16 984	312	376	14 703	178 778	148 656	327 833	D
31152	Ice cream and frozen dessert manufacturing	1	11	3	338	16 329	301	354	14 315	176 889	144 231	321 519	D
311520	Ice cream and frozen dessert manufacturing	1	11	3	338	16 329	301	354	14 315	176 889	144 231	321 519	D
3116	Animal slaughtering and processing	—	7	2	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	—	7	2	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	3	102	20	1 508	39 862	908	1 676	19 665	95 997	52 973	148 876	2 832
31181	Bread and bakery product manufacturing	3	99	20	1 484	39 139	892	1 646	19 166	93 285	50 357	143 550	2 732
311811	Retail bakeries	3	64	6	493	7 692	284	403	4 076	18 161	8 731	26 905	D
311812	Commercial bakeries	2	30	14	949	30 061	573	1 172	14 073	71 180	37 954	109 029	2 111
3119	Other food manufacturing	—	26	11	1 401	54 145	891	1 661	26 081	118 496	368 868	487 991	8 320
31191	Snack food manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	4	16	4	315	8 872	223	393	5 602	33 731	38 206	71 618	3 419
312	Beverage and tobacco product manufacturing	2	10	5	985	51 059	468	1 010	19 687	88 265	196 831	285 212	7 469
3121	Beverage manufacturing	2	10	5	985	51 059	468	1 010	19 687	88 265	196 831	285 212	7 469
31211	Soft drink and ice manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ...	—	3	3	f	D	D	D	D	D	D	D	D
313	Textile mills	2	20	13	1 366	51 875	1 047	2 227	29 780	125 681	189 264	327 504	8 268
3131	Fiber, yarn, and thread mills	—	3	2	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, and thread mills ...	—	3	2	e	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	—	2	1	e	D	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills	3	9	7	f	D	D	D	D	D	D	D	D
31332	Fabric coating mills	3	7	7	659	29 947	423	940	12 398	76 349	101 310	177 491	D
313320	Fabric coating mills	3	7	7	659	29 947	423	940	12 398	76 349	101 310	177 491	D
314	Textile product mills	3	38	2	361	9 211	279	551	5 799	16 398	13 595	30 349	D
315	Apparel manufacturing	9	36	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	30	5	610	21 602	469	1 014	14 610	43 347	64 045	105 547	2 376
3219	Other wood product manufacturing	—	25	4	426	15 491	305	662	9 488	33 812	37 685	69 308	1 550

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
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322	Paper manufacturing	1	36	23	2 562	107 353	1 833	3 785	61 762	250 934	280 333	529 059	10 075
3221	Pulp, paper, and paperboard mills	—	4	3	315	14 977	212	429	9 682	43 631	52 274	96 594	D
32212	Paper mills	—	3	2	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	3	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	32	20	2 247	92 376	1 621	3 356	52 080	207 303	228 059	432 465	D
32221	Paperboard container manufacturing	—	16	11	873	36 532	605	1 295	19 988	75 236	130 735	206 043	2 781
322211	Corrugated and solid fiber box manufacturing	—	7	6	537	24 283	346	728	11 513	50 579	80 378	131 273	1 612
32222	Paper bag and coated and treated paper manufacturing ..	3	9	5	513	27 027	310	672	13 595	73 167	65 250	134 057	1 898
322222	Coated and laminated paper manufacturing	3	7	3	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	3	1	f	D	D	D	D	D	D	D	D
322231	Die-cut paper and paperboard office supplies manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	2	257	51	4 530	180 924	3 212	6 086	109 437	419 179	231 189	651 506	10 447
3231	Printing and related support activities	2	257	51	4 530	180 924	3 212	6 086	109 437	419 179	231 189	651 506	10 447
32311	Printing	2	'235	44	'4 240	'169 699	'2 986	'5 666	'101 917	'395 440	'223 752	'620 783	'9 748
323110	Commercial lithographic printing	2	'115	27	'2 374	'105 925	'1 592	'3 096	'59 336	'198 471	'154 681	'354 094	'5 193
323114	Quick printing	5	52	1	291	8 933	194	338	5 277	17 434	7 488	24 929	772
323115	Digital printing	2	16	7	279	9 897	193	366	6 070	22 687	8 538	31 220	543
323117	Books printing	4	6	4	618	23 574	538	1 087	19 299	45 377	21 953	67 523	985
32312	Support activities for printing...	'5	'22	7	'290	'11 225	'226	'420	'7 520	'23 739	'7 437	'30 723	'699
325	Chemical manufacturing	5	94	40	6 085	367 511	2 285	4 419	108 852	1 058 135	607 114	1 692 971	131 155
3254	Pharmaceutical and medicine manufacturing	7	29	17	2 924	184 424	905	1 782	41 070	739 758	237 062	988 188	60 907
32541	Pharmaceutical and medicine manufacturing	7	29	17	2 924	184 424	905	1 782	41 070	739 758	237 062	988 188	60 907
325412	Pharmaceutical preparation manufacturing	8	11	5	1 834	123 822	322	591	16 617	591 426	184 844	795 620	41 914
325414	Biological product (except diagnostic) manufacturing ..	1	7	5	691	39 934	326	619	14 327	81 998	26 132	100 082	14 659
3255	Paint, coating, and adhesive manufacturing	—	18	5	321	17 572	144	306	7 617	40 451	28 678	68 294	1 332
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	6	15	4	269	9 826	135	267	3 895	50 894	27 912	78 847	2 310
32561	Soap and cleaning compound manufacturing	7	13	4	e	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	1	20	10	2 326	142 431	998	1 895	51 298	193 936	279 324	488 498	60 192
32599	All other chemical product and preparation manufacturing ...	—	12	6	2 136	134 878	896	1 703	48 418	177 320	255 203	447 619	59 424
325992	Photographic film, paper, plate, and chemical manufacturing	—	1	1	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing ..	—	9	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	61	25	2 497	84 074	1 762	3 499	46 553	265 305	168 600	435 560	19 460
3261	Plastics product manufacturing ..	1	58	25	2 468	82 942	1 741	3 458	45 886	262 649	167 043	431 345	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	—	12	7	395	16 272	247	518	8 056	38 600	45 351	84 825	1 614
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	8	5	302	13 001	170	343	5 629	31 800	39 192	71 715	1 325

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division—Con.												
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32615	Urethane and other foam product (except polystyrene) manufacturing	—	3	1	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	—	3	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	35	15	1 669	52 825	1 230	2 373	31 504	187 948	86 061	274 443	16 550
326199	All other plastics product manufacturing	1	35	15	1 669	52 825	1 230	2 373	31 504	187 948	86 061	274 443	16 550
327	Nonmetallic mineral product manufacturing	5	51	17	1 013	39 539	787	1 717	26 924	81 314	66 975	148 797	3 737
3279	Other nonmetallic mineral product manufacturing	5	17	9	531	20 563	417	884	14 863	36 330	30 842	67 338	1 806
32799	All other nonmetallic mineral product manufacturing	5	16	8	e	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing	6	10	6	413	16 115	343	719	12 591	26 400	24 966	51 646	1 500
331	Primary metal manufacturing	—	17	5	750	37 603	463	974	20 794	14 758	147 616	172 866	5 599
3314	Nonferrous metal (except aluminum) production and processing	—	4	2	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	—	3	2	e	D	D	D	D	D	D	D	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	—	2	2	e	D	D	D	D	D	D	D	D
3315	Foundries	—	10	2	310	12 668	249	577	9 934	28 634	10 234	39 986	D
33152	Nonferrous metal foundries	—	6	2	290	11 917	233	544	9 361	27 117	9 154	37 389	D
332	Fabricated metal product manufacturing	2	356	89	7 024	304 631	4 480	8 996	149 896	794 855	544 943	1 323 094	32 982
3323	Architectural and structural metals manufacturing	4	65	19	980	37 258	699	1 283	21 494	77 567	47 508	125 448	1 973
33232	Ornamental and architectural metal products manufacturing	4	52	14	787	28 777	555	986	16 107	59 038	33 415	92 878	1 473
332322	Sheet metal work manufacturing	4	34	9	552	19 721	414	764	11 969	38 689	19 047	58 237	900
3324	Boiler, tank, and shipping container manufacturing	6	8	5	757	30 890	497	1 046	15 954	72 054	42 088	112 603	1 202
33242	Metal tank (heavy gauge) manufacturing	8	3	2	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing	8	3	2	f	D	D	D	D	D	D	D	D
3325	Hardware manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	172	35	2 047	87 543	1 471	2 949	55 195	184 355	66 528	251 292	10 114
33271	Machine shops	3	142	23	1 434	62 664	1 004	2 017	38 352	124 754	48 632	175 463	6 062
332710	Machine shops	3	142	23	1 434	62 664	1 004	2 017	38 352	124 754	48 632	175 463	6 062
33272	Turned product and screw, nut, and bolt manufacturing	2	30	12	613	24 879	467	932	16 843	59 601	17 896	75 829	4 052
332721	Precision turned product manufacturing	2	26	12	585	23 226	453	902	16 341	54 058	15 825	68 250	3 953

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division—Con.												
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities	2	50	15	1 022	34 688	771	1 510	22 535	68 932	23 179	92 474	2 677
33281	Coating, engraving, heat treating, and allied activities ..	2	50	15	1 022	34 688	771	1 510	22 535	68 932	23 179	92 474	2 677
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	26	6	481	16 500	407	758	12 096	33 920	13 853	48 013	1 837
332813	Electroplating, plating, polishing, anodizing, and coloring	3	20	9	508	16 846	343	706	9 686	31 413	8 882	40 367	D
3329	Other fabricated metal product manufacturing	—	30	7	1 529	91 313	548	1 202	22 346	198 450	98 799	297 665	7 742
33299	All other fabricated metal product manufacturing	—	25	6	1 376	85 240	441	983	18 863	185 645	89 216	275 277	D
332993	Ammunition (except small arms) manufacturing	—	3	2	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	3	19	4	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing	5	169	60	7 753	406 568	4 140	8 510	158 586	801 109	634 081	1 455 041	63 430
3332	Industrial machinery manufacturing	7	41	15	3 474	201 783	1 757	3 739	67 655	416 241	330 253	759 385	36 032
33329	Other industrial machinery manufacturing	7	37	15	3 434	200 015	1 738	3 699	66 923	411 746	326 991	751 643	35 907
333293	Printing machinery and equipment manufacturing ..	3	4	3	326	18 450	145	298	6 083	39 720	27 208	67 175	D
333295	Semiconductor machinery manufacturing	7	10	6	1 841	116 271	811	1 665	35 235	216 108	218 983	442 242	26 681
333298	All other industrial machinery manufacturing	9	18	5	1 212	62 407	750	1 671	24 174	142 173	77 469	225 141	7 842
3333	Commercial and service industry machinery manufacturing	3	37	17	1 638	71 722	974	1 975	34 908	133 450	86 454	215 334	4 157
33331	Commercial and service industry machinery manufacturing	3	37	17	1 638	71 722	974	1 975	34 908	133 450	86 454	215 334	4 157
333314	Optical instrument and lens manufacturing	—	20	9	997	45 634	626	1 270	23 691	69 779	29 096	95 151	D
333319	Other commercial and service industry machinery manufacturing	5	11	5	471	18 324	259	514	8 054	44 205	38 223	81 927	1 527
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	—	10	5	377	14 986	171	339	5 423	31 183	48 307	79 581	562
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	—	10	5	377	14 986	171	339	5 423	31 183	48 307	79 581	562
3335	Metalworking machinery manufacturing	2	34	6	377	19 106	210	417	8 377	33 017	30 619	64 641	2 338
33351	Metalworking machinery manufacturing	2	34	6	377	19 106	210	417	8 377	33 017	30 619	64 641	2 338
3339	Other general purpose machinery manufacturing	1	42	15	1 822	96 330	982	1 950	40 526	181 205	134 590	326 368	19 854
33391	Pump and compressor manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	1	34	10	1 230	68 514	672	1 394	29 139	138 563	80 656	227 622	18 915
333993	Packaging machinery manufacturing	2	5	3	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing	1	19	3	538	32 992	299	653	15 313	86 294	40 424	135 327	10 124

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division—Con.												
334	Computer and electronic product manufacturing	1	398	212	36 053	2 164 508	13 380	26 114	523 677	7 599 649	4 135 553	11 800 758	246 162
3341	Computer and peripheral equipment manufacturing	3	45	21	2 919	211 277	824	1 659	35 179	351 637	269 613	620 176	24 258
33411	Computer and peripheral equipment manufacturing	3	45	21	2 919	211 277	824	1 659	35 179	351 637	269 613	620 176	24 258
334111	Electronic computer manufacturing	—	9	5	1 435	125 365	240	512	12 686	169 042	113 747	281 696	9 581
334119	Other computer peripheral equipment manufacturing ..	5	28	13	1 285	74 253	531	1 037	20 933	160 136	138 548	298 806	12 690
3342	Communications equipment manufacturing	2	55	35	5 179	340 367	1 513	2 828	66 332	1 229 216	827 241	2 107 109	33 824
33421	Telephone apparatus manufacturing	1	24	17	3 452	235 317	946	1 843	46 751	986 062	736 033	1 776 237	25 916
334210	Telephone apparatus manufacturing	1	24	17	3 452	235 317	946	1 843	46 751	986 062	736 033	1 776 237	25 916
33422	Radio and television broadcasting and wireless communications equipment manufacturing	6	21	13	g	D	D	D	D	D	D	D	6 609
334220	Radio and television broadcasting and wireless communications equipment manufacturing	6	21	13	g	D	D	D	D	D	D	D	6 609
33429	Other communications equipment manufacturing	7	10	5	f	D	D	D	D	D	D	D	1 299
334290	Other communications equipment manufacturing ..	7	10	5	f	D	D	D	D	D	D	D	1 299
3343	Audio and video equipment manufacturing	—	5	3	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	—	5	3	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	—	5	3	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	133	66	11 224	544 736	5 797	11 383	212 400	3 094 965	1 459 717	4 624 732	100 621
33441	Semiconductor and other electronic component manufacturing	—	133	66	11 224	544 736	5 797	11 383	212 400	3 094 965	1 459 717	4 624 732	100 621
334412	Bare printed circuit board manufacturing	—	25	10	1 421	45 723	742	1 526	24 655	93 198	67 580	162 281	4 670
334413	Semiconductor and related device manufacturing	—	32	18	5 139	291 011	2 864	5 445	116 912	2 601 613	1 004 344	3 659 489	75 006
334418	Printed circuit assembly (electronic assembly) manufacturing	2	29	24	2 199	94 793	1 135	2 224	32 520	180 521	239 421	423 770	13 579
334419	Other electronic component manufacturing	1	32	10	2 176	101 128	856	1 772	31 562	190 697	133 725	332 751	6 897
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	148	81	15 354	1 016 582	4 272	8 173	176 966	2 627 515	1 426 039	3 998 711	80 684
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	148	81	15 354	1 016 582	4 272	8 173	176 966	2 627 515	1 426 039	3 998 711	80 684
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	8	22	12	1 402	85 769	484	987	17 148	226 309	106 551	333 791	7 956
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	15	9	i	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	—	17	13	1 784	88 624	634	1 067	24 365	189 113	128 380	318 505	5 378
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	5	22	11	962	54 062	312	601	10 729	147 497	128 470	272 666	3 785
334516	Analytical laboratory instrument manufacturing ..	1	20	8	1 664	100 314	609	1 259	26 269	234 447	164 203	402 503	8 936
334517	Irradiation apparatus manufacturing	—	12	9	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division—Con.												
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
334519	Other measuring and controlling device manufacturing	1	33	15	1 784	109 097	844	1 662	36 610	206 269	102 469	314 767	4 508
3346	Manufacturing and reproducing magnetic and optical media.....	3	12	6	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	3	12	6	g	D	D	D	D	D	D	D	D
334611	Software reproducing	—	3	3	e	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing	9	6	2	425	13 668	257	564	7 650	38 454	22 725	60 710	1 535
335	Electrical equipment, appliance, and component manufacturing	3	62	27	2 908	119 843	1 520	2 934	48 064	210 712	179 695	393 511	13 055
3351	Electric lighting equipment manufacturing	1	8	2	e	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	1	7	2	e	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	4	21	10	799	39 027	385	628	9 311	58 843	53 457	115 889	D
33531	Electrical equipment manufacturing	4	21	10	799	39 027	385	628	9 311	58 843	53 457	115 889	D
335312	Motor and generator manufacturing	—	6	4	e	D	D	D	D	D	D	D	2 114
335314	Relay and industrial control manufacturing	6	13	6	452	23 356	216	290	4 423	38 574	20 996	59 682	D
3359	Other electrical equipment and component manufacturing	4	32	14	g	D	D	D	D	D	D	D	D
33591	Battery manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing ..	3	8	4	696	18 892	90	198	2 774	11 216	14 012	24 852	D
335929	Other communication and energy wire manufacturing ..	2	5	2	635	16 276	55	130	1 556	6 206	9 607	15 469	D
33599	All other electrical equipment and component manufacturing	5	15	6	533	29 846	368	806	16 054	54 597	47 281	102 139	6 352
335999	All other miscellaneous electrical equipment and component manufacturing ..	6	13	5	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	2	41	19	1 403	66 121	928	1 897	36 384	168 003	145 152	310 410	6 104
3363	Motor vehicle parts manufacturing	3	20	8	f	D	D	D	D	D	D	D	3 803
33631	Motor vehicle gasoline engine and engine parts manufacturing	—	4	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing	—	4	1	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	3	9	4	254	15 863	120	235	5 429	61 001	64 851	125 978	D
336322	Other motor vehicle electrical and electronic equipment manufacturing	3	9	4	254	15 863	120	235	5 429	61 001	64 851	125 978	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Cambridge-Newton-Framingham, MA Metropolitan Division—Con.												
337	Furniture and related product manufacturing	3	84	15	1 654	59 984	1 185	2 427	35 725	124 049	90 893	215 331	5 402
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	65	7	f	D	D	D	D	D	D	D	3 292
33711	Wood kitchen cabinet and countertop manufacturing	6	34	4	e	D	D	D	D	D	D	D	335
337110	Wood kitchen cabinet and countertop manufacturing ..	6	34	4	e	D	D	D	D	D	D	D	335
33712	Household and institutional furniture manufacturing	—	31	3	658	23 017	454	953	12 815	50 054	38 128	87 824	2 957
337127	Institutional furniture manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	4	14	7	655	26 371	462	941	15 536	55 036	37 384	91 752	2 010
33721	Office furniture (including fixtures) manufacturing	4	14	7	655	26 371	462	941	15 536	55 036	37 384	91 752	2 010
337212	Custom architectural woodwork and millwork manufacturing	1	7	3	278	10 503	196	393	6 502	22 322	12 877	34 514	948
339	Miscellaneous manufacturing	4	233	66	7 861	352 887	4 362	8 626	137 580	1 101 924	378 700	1 489 263	39 076
3391	Medical equipment and supplies manufacturing	4	111	38	4 896	238 489	2 525	5 055	84 639	820 081	174 143	1 007 128	27 458
33911	Medical equipment and supplies manufacturing	4	111	38	4 896	238 489	2 525	5 055	84 639	820 081	174 143	1 007 128	27 458
339111	Laboratory apparatus and furniture manufacturing	—	10	2	403	28 144	93	201	5 282	52 195	33 054	91 934	1 732
339112	Surgical and medical instrument manufacturing ..	4	34	22	3 327	160 780	1 636	3 218	50 804	669 308	113 066	788 011	20 250
339113	Surgical appliance and supplies manufacturing	2	13	7	546	27 589	331	744	13 436	64 332	17 979	82 799	4 403
339116	Dental laboratories	6	46	5	476	17 352	371	729	12 757	25 335	5 811	31 065	D
3399	Other miscellaneous manufacturing	3	122	28	2 965	114 398	1 837	3 571	52 941	281 843	204 557	482 135	11 618
33995	Sign manufacturing	8	29	3	420	14 060	286	509	7 370	24 779	16 567	41 329	D
339950	Sign manufacturing	8	29	3	420	14 060	286	509	7 370	24 779	16 567	41 329	D
33999	All other miscellaneous manufacturing	3	70	18	2 141	85 764	1 292	2 550	38 638	221 543	158 871	375 692	9 279
339991	Gasket, packing, and sealing device manufacturing	7	7	3	636	28 531	386	777	12 915	65 779	36 346	101 996	D
339999	All other miscellaneous manufacturing	—	50	11	1 250	47 438	693	1 383	18 538	135 114	114 179	244 772	7 407
	Essex County, MA Metropolitan Division												
31-33	Manufacturing	1	1 134	365	55 183	'2 679 381	'31 929	62 687	'1 232 166	'8 128 805	'5 773 188	14 187 532	468 030
311	Food manufacturing	3	99	31	3 953	'140 604	2 523	4 835	'63 406	563 567	519 325	1 084 223	30 191
3115	Dairy product manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	—	2	2	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	—	2	2	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	8	11	5	1 143	49 811	702	1 449	19 001	173 429	185 937	366 983	7 010
31171	Seafood product preparation and packaging	8	11	5	1 143	49 811	702	1 449	19 001	173 429	185 937	366 983	7 010
311712	Fresh and frozen seafood processing	8	10	5	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	—	46	13	f	D	D	D	D	D	D	D	2 201
31181	Bread and bakery product manufacturing	1	45	12	693	'17 166	413	684	'9 640	41 538	16 270	57 711	D
311811	Retail bakeries	3	27	6	e	D	D	D	D	D	D	D	1 342
311812	Commercial bakeries	1	14	3	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Essex County, MA Metropolitan Division—Con.												
311	Food manufacturing—Con.												
3119	Other food manufacturing	3	12	4	349	9 887	300	600	7 154	33 301	25 740	59 019	D
31199	All other food manufacturing ...	4	6	3	e	D	D	D	D	D	D	D	953
311991	Perishable prepared food manufacturing	3	2	2	e	D	D	D	D	D	D	D	D
313	Textile mills	—	16	8	1 159	36 809	797	1 582	23 494	93 979	77 130	176 936	D
3133	Textile and fabric finishing and fabric coating mills	—	11	6	1 098	34 248	756	1 528	21 938	87 663	72 748	166 329	D
31331	Textile and fabric finishing mills	—	8	4	f	D	D	D	D	D	D	D	D
313312	Textile and fabric finishing (except broadwoven fabric) mills	—	3	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	7	24	4	435	12 316	318	665	7 762	20 544	27 215	48 041	D
3149	Other textile product mills	9	18	3	364	9 841	268	558	6 348	15 774	20 990	37 163	D
31499	All other textile product mills ...	9	10	2	281	7 350	217	459	5 129	12 200	17 185	29 810	326
314999	All other miscellaneous textile product mills	9	10	2	281	7 350	217	459	5 129	12 200	17 185	29 810	326
315	Apparel manufacturing	1	14	3	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	1	10	3	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing	2	27	9	f	D	D	D	D	D	D	D	D
3162	Footwear manufacturing	1	5	2	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing	1	5	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	27	3	340	12 622	150	321	4 107	17 450	20 901	38 628	D
3219	Other wood product manufacturing	2	22	2	298	11 353	140	301	3 857	15 007	16 912	32 046	D
322	Paper manufacturing	2	22	15	1 509	57 421	1 174	2 381	39 450	114 261	143 489	258 687	5 896
3221	Pulp, paper, and paperboard mills	—	3	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	3	19	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	3	13	8	737	22 636	608	1 135	15 360	46 719	62 528	109 062	2 029
322212	Folding paperboard box manufacturing	5	6	4	477	12 937	409	728	9 856	24 552	33 739	58 444	747
323	Printing and related support activities	3	108	20	1 599	61 008	1 179	2 269	38 775	114 883	62 131	177 417	3 589
3231	Printing and related support activities	3	108	20	1 599	61 008	1 179	2 269	38 775	114 883	62 131	177 417	3 589
32311	Printing	4	99	19	1 444	54 160	1 049	2 006	33 497	103 829	58 996	163 234	D
323110	Commercial lithographic printing	6	49	10	601	22 208	433	806	14 267	40 742	26 147	66 918	1 293
323113	Commercial screen printing ..	2	17	4	354	10 906	275	536	7 124	20 460	7 879	28 410	446
325	Chemical manufacturing	1	'69	'29	'5 357	'310 993	'2 875	'6 104	'142 042	'1 369 644	'559 717	'1 894 368	81 456
3251	Basic chemical manufacturing ...	3	8	4	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing	2	5	3	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	2	11	6	g	D	D	D	D	D	D	D	56 210
32541	Pharmaceutical and medicine manufacturing	2	11	6	g	D	D	D	D	D	D	D	56 210
325412	Pharmaceutical preparation manufacturing	2	4	2	g	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Essex County, MA Metropolitan Division—Con.												
325	Chemical manufacturing—Con.												
3255	Paint, coating, and adhesive manufacturing	—	'17	'6	'743	'35 595	'336	'732	'14 729	'127 592	'98 108	'232 423	5 184
32551	Paint and coating manufacturing	—	9	3	385	16 899	144	318	6 493	63 735	47 365	111 702	D
325510	Paint and coating manufacturing	—	9	3	385	16 899	144	318	6 493	63 735	47 365	111 702	D
32552	Adhesive manufacturing	—	'8	'3	'358	'18 696	'192	'414	'8 236	'63 857	'50 743	'120 721	D
325520	Adhesive manufacturing	—	'8	'3	'358	'18 696	'192	'414	'8 236	'63 857	'50 743	'120 721	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	—	10	4	834	36 912	497	889	20 355	444 234	178 973	623 245	D
32562	Toilet preparation manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	2	16	7	841	36 306	581	1 196	20 008	90 138	103 976	193 074	6 854
32599	All other chemical product and preparation manufacturing ...	1	13	5	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing ..	—	7	3	618	26 584	442	908	15 243	68 616	72 467	140 626	D
326	Plastics and rubber products manufacturing	1	51	23	2 245	79 974	1 722	3 447	50 113	206 635	156 209	360 386	16 983
3261	Plastics product manufacturing ..	1	44	22	2 029	72 494	1 555	3 183	45 260	192 032	148 556	337 944	16 320
32615	Urethane and other foam product (except polystyrene) manufacturing	1	8	6	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	1	8	6	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	26	9	1 266	41 515	1 061	2 257	30 247	120 681	88 271	206 714	11 613
326199	All other plastics product manufacturing	1	26	9	1 266	41 515	1 061	2 257	30 247	120 681	88 271	206 714	11 613
327	Nonmetallic mineral product manufacturing	2	21	9	482	19 293	350	731	11 916	46 801	35 241	83 121	2 891
332	Fabricated metal product manufacturing	2	'240	'59	'4 094	'175 132	'2 997	'6 149	'110 206	'360 246	'246 080	'601 577	21 223
3323	Architectural and structural metals manufacturing	4	42	13	1 060	38 700	785	1 554	23 837	79 530	59 297	135 093	3 808
33232	Ornamental and architectural metal products manufacturing	5	34	9	812	29 331	609	1 199	18 119	62 072	46 648	105 624	3 410
332322	Sheet metal work manufacturing	5	25	7	697	23 493	533	1 048	15 064	49 147	41 130	87 162	2 975
3324	Boiler, tank, and shipping container manufacturing	—	9	4	285	14 292	224	498	10 593	50 204	65 320	114 512	2 143
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	128	24	1 696	77 868	1 239	2 568	50 082	137 761	65 925	202 753	13 269
33271	Machine shops	2	111	17	1 371	63 521	995	2 059	39 979	103 832	53 087	156 319	5 318
332710	Machine shops	2	111	17	1 371	63 521	995	2 059	39 979	103 832	53 087	156 319	5 318
33272	Turned product and screw, nut, and bolt manufacturing	3	17	7	325	14 347	244	509	10 103	33 929	12 838	46 434	7 951
3328	Coating, engraving, heat treating, and allied activities	2	'21	'5	'293	'11 145	'227	'472	'7 017	'20 755	'6 998	'27 771	462
33281	Coating, engraving, heat treating, and allied activities ..	2	'21	'5	'293	'11 145	'227	'472	'7 017	'20 755	'6 998	'27 771	462
3329	Other fabricated metal product manufacturing	4	23	10	477	20 445	322	622	11 455	46 250	33 366	80 914	994
33299	All other fabricated metal product manufacturing	5	20	8	303	12 013	233	447	7 846	28 964	15 213	44 962	D
332999	All other miscellaneous fabricated metal product manufacturing	5	18	7	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Essex County, MA Metropolitan Division—Con.												
333	Machinery manufacturing	2	87	37	5 866	323 010	2 974	5 254	126 021	612 360	507 272	1 121 948	34 101
3332	Industrial machinery manufacturing	1	26	16	3 614	231 085	1 378	2 100	71 697	404 022	358 163	764 566	27 939
33322	Plastics and rubber industry machinery manufacturing	5	4	3	751	38 662	375	777	14 817	66 762	55 800	123 302	1 459
333220	Plastics and rubber industry machinery manufacturing ..	5	4	3	751	38 662	375	777	14 817	66 762	55 800	123 302	1 459
33329	Other industrial machinery manufacturing	—	22	13	2 863	192 423	1 003	1 323	56 880	337 260	302 363	641 264	26 480
333295	Semiconductor machinery manufacturing	—	7	5	2 535	177 811	828	974	50 395	306 153	277 274	584 394	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	8	9	5	725	25 960	536	1 088	15 730	61 821	55 658	117 282	1 541
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	8	9	5	725	25 960	536	1 088	15 730	61 821	55 658	117 282	1 541
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	9	2	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	23	4	478	21 299	408	936	17 647	30 959	17 500	48 636	D
33351	Metalworking machinery manufacturing	1	23	4	478	21 299	408	936	17 647	30 959	17 500	48 636	D
333515	Cutting tool and machine tool accessory manufacturing ...	—	8	1	315	13 444	309	730	13 126	20 556	12 018	32 824	D
3339	Other general purpose machinery manufacturing	—	16	7	745	30 103	481	765	14 164	84 302	48 251	132 331	1 399
33391	Pump and compressor manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	—	10	5	435	15 701	280	400	7 305	46 478	29 866	77 552	D
333994	Industrial process furnace and oven manufacturing ...	—	4	3	e	D	D	D	D	D	D	D	92
334	Computer and electronic product manufacturing	—	115	59	14 743	751 910	7 290	14 158	284 558	2 494 163	1 455 523	4 257 397	122 351
3341	Computer and peripheral equipment manufacturing	—	11	3	558	30 409	190	342	6 834	86 679	75 474	165 195	8 414
33411	Computer and peripheral equipment manufacturing	—	11	3	558	30 409	190	342	6 834	86 679	75 474	165 195	8 414
334119	Other computer peripheral equipment manufacturing ..	—	6	3	526	28 820	170	309	5 978	84 084	71 422	158 594	D
3342	Communications equipment manufacturing	—	14	11	g	D	D	D	D	D	D	D	18 019
33421	Telephone apparatus manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2	10	8	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2	10	8	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	—	4	2	e	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Essex County, MA Metropolitan Division—Con.												
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing	1	47	28	3 012	127 849	2 028	3 534	70 195	221 899	159 500	378 419	19 280
33441	Semiconductor and other electronic component manufacturing	—	47	28	3 012	127 849	2 028	3 534	70 195	221 899	159 500	378 419	19 280
334411	Electron tube manufacturing .	1	3	3	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing	—	9	5	740	25 439	579	619	17 666	23 550	18 421	42 183	1 504
334413	Semiconductor and related device manufacturing	2	12	7	681	36 911	339	630	13 991	72 364	52 073	125 066	13 095
334417	Electronic connector manufacturing	1	5	5	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	10	6	435	19 334	298	643	10 976	57 839	54 437	110 752	2 534
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	34	15	8 912	491 587	3 934	7 811	160 190	1 973 644	660 773	2 725 750	75 350
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	34	15	8 912	491 587	3 934	7 811	160 190	1 973 644	660 773	2 725 750	75 350
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	5	4	2 336	143 777	767	1 782	41 953	832 267	109 152	1 027 287	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	7	2	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	9	2	1	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	—	6	4	569	19 456	338	800	7 033	75 212	36 897	118 050	D
334517	Irradiation apparatus manufacturing	—	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	3	32	15	3 368	153 962	1 689	2 865	56 898	285 933	226 587	518 149	17 974
3353	Electrical equipment manufacturing	4	8	3	1 318	74 549	351	599	18 208	175 304	120 830	300 025	D
33531	Electrical equipment manufacturing	4	8	3	1 318	74 549	351	599	18 208	175 304	120 830	300 025	D
335313	Switchgear and switchboard apparatus manufacturing ...	—	1	1	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	7	7	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	—	21	11	g	D	D	D	D	D	D	D	13 102
33599	All other electrical equipment and component manufacturing	—	10	4	1 647	64 390	1 130	1 897	33 678	78 314	80 589	160 400	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	—	10	4	1 647	64 390	1 130	1 897	33 678	78 314	80 589	160 400	D
336	Transportation equipment manufacturing	—	24	10	i	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	7	6	h	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	7	6	h	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	—	6	6	h	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	3	51	6	455	14 621	351	692	9 397	33 955	23 725	56 810	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	4	37	2	291	8 806	237	473	6 279	19 565	17 720	36 414	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.													
Essex County, MA Metropolitan Division—Con.													
339	Miscellaneous manufacturing	—	90	23	3 279	136 469	1 896	4 160	57 286	342 690	143 715	488 089	24 972
3391	Medical equipment and supplies manufacturing	1	37	13	2 029	83 200	1 314	2 963	37 306	199 725	63 996	263 826	20 239
33911	Medical equipment and supplies manufacturing	1	37	13	2 029	83 200	1 314	2 963	37 306	199 725	63 996	263 826	20 239
339113	Surgical appliance and supplies manufacturing	—	7	4		D	D	D	D	D	D	D	3 073
339116	Dental laboratories	8	17	2	315	10 256	238	491	7 355	17 172	4 437	21 249	553
3399	Other miscellaneous manufacturing	—	53	10	1 250	53 269	582	1 197	19 980	142 965	79 719	224 263	4 733
33995	Sign manufacturing	—	11	1	e	D	D	D	D	D	D	D	D
339950	Sign manufacturing	—	11	1	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	—	32	8	813	35 086	417	890	13 986	97 418	41 288	137 898	D
339991	Gasket, packing, and sealing device manufacturing	—	6	3	e	D	D	D	D	D	D	D	973
339999	All other miscellaneous manufacturing	1	20	4	252	12 257	133	284	5 001	25 019	9 571	34 879	D
Rockingham County-Strafford County, NH Metropolitan Division													
31-33	Manufacturing	1	648	198	22 399	909 788	14 429	27 642	452 042	'2 626 109	1 983 504	'4 620 793	111 596
311	Food manufacturing	3	37	6	925	36 573	661	1 201	20 837	109 368	181 441	283 761	4 294
3113	Sugar and confectionery product manufacturing	9	3	1	e	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans	9	2	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans	9	2	1	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	—	7	3	302	12 334	201	388	5 460	21 787	74 334	95 782	1 456
31171	Seafood product preparation and packaging	—	7	3	302	12 334	201	388	5 460	21 787	74 334	95 782	1 456
311712	Fresh and frozen seafood processing	—	6	3	e	D	D	D	D	D	D	D	D
314	Textile product mills	8	20	3	673	22 799	427	878	15 938	47 914	41 782	91 174	1 327
3149	Other textile product mills	9	14	2	608	20 668	400	835	15 509	45 918	38 984	85 787	1 207
31499	All other textile product mills	9	5	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	9	5	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	4	27	7	755	23 823	583	1 181	15 093	50 454	58 489	107 803	D
3219	Other wood product manufacturing	3	20	7	711	22 223	552	1 117	14 100	44 115	48 349	91 324	D
32191	Millwork	—	8	3	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing	5	10	4	435	14 757	330	706	9 325	31 057	31 065	61 971	D
321992	Prefabricated wood building manufacturing	5	7	4	e	D	D	D	D	D	D	D	D
322	Paper manufacturing	7	10	6	391	15 029	275	550	8 309	44 734	37 910	82 944	2 598
3222	Converted paper product manufacturing	5	9	5	e	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	57	12	966	36 059	660	1 372	21 007	74 964	37 764	112 270	2 971
3231	Printing and related support activities	1	57	12	966	36 059	660	1 372	21 007	74 964	37 764	112 270	2 971
32311	Printing	1	54	10	816	29 497	574	1 212	16 726	63 200	35 749	98 366	D
323110	Commercial lithographic printing	—	23	5	339	13 884	238	523	7 954	26 805	16 304	43 026	1 589
323113	Commercial screen printing	1	9	3	296	9 658	215	465	5 464	23 537	13 251	36 466	684

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	Rockingham County-Strafford County, NH Metropolitan Division—Con.												
325	Chemical manufacturing	1	19	7	1 121	48 253	666	1 214	20 861	134 655	59 932	194 737	6 803
3254	Pharmaceutical and medicine manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	35	14	2 557	81 433	2 008	3 868	54 836	136 325	140 556	280 373	8 531
3261	Plastics product manufacturing ..	1	28	12	2 255	72 249	1 764	3 343	48 795	110 005	119 038	229 627	D
32619	Other plastics product manufacturing	1	20	7	1 939	60 556	1 560	2 885	41 351	83 285	86 585	169 965	5 939
326199	All other plastics product manufacturing	1	20	7	1 939	60 556	1 560	2 885	41 351	83 285	86 585	169 965	5 939
3262	Rubber product manufacturing ...	6	7	2	302	9 184	244	525	6 041	26 320	21 518	50 746	D
32622	Rubber and plastics hoses and belting manufacturing	5	2	2	e	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing ..	5	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	—	25	11	1 189	46 686	865	1 812	30 030	172 628	115 837	288 796	8 745
3272	Glass and glass product manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	3	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	5	5	e	D	D	D	D	D	D	D	D
3315	Foundries	—	4	4	268	9 153	215	473	6 018	23 211	3 485	26 701	D
33152	Nonferrous metal foundries	—	4	4	268	9 153	215	473	6 018	23 211	3 485	26 701	D
332	Fabricated metal product manufacturing	2	136	31	2 893	109 771	2 169	3 855	68 407	269 659	165 538	441 075	9 876
3323	Architectural and structural metals manufacturing	1	26	9	712	28 638	530	965	19 670	62 852	50 564	117 499	1 705
33231	Plate work and fabricated structural product manufacturing	3	10	3	285	8 808	210	333	5 299	24 260	16 058	43 746	882
332312	Fabricated structural metal manufacturing	3	7	3	262	7 945	193	297	4 749	22 506	14 469	40 403	821
33232	Ornamental and architectural metal products manufacturing	—	16	6	427	19 830	320	632	14 371	38 592	34 506	73 753	823
332322	Sheet metal work manufacturing	—	13	6	408	19 346	306	612	14 095	37 815	33 828	72 298	796
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	4	69	8	673	27 280	507	1 008	19 335	49 097	17 772	67 328	3 444
33271	Machine shops	5	62	6	520	20 780	386	753	14 506	36 713	14 809	51 646	1 946
332710	Machine shops	5	62	6	520	20 780	386	753	14 506	36 713	14 809	51 646	1 946
3329	Other fabricated metal product manufacturing	—	15	8	886	29 217	663	992	14 674	107 569	63 268	171 032	2 724
33299	All other fabricated metal product manufacturing	—	9	5	722	21 233	578	817	12 161	82 763	50 628	133 253	1 842
332994	Small arms manufacturing ...	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	54	21	2 789	136 516	1 516	2 682	52 350	238 698	294 559	501 909	15 387
3332	Industrial machinery manufacturing	—	13	7	1 352	68 889	660	1 052	26 843	127 800	178 295	275 416	D
33329	Other industrial machinery manufacturing	—	9	4	g	D	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D

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	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Rockingham County-Strafford County, NH Metropolitan Division—Con.												
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing	—	11	4	625	35 147	312	627	8 379	33 952	65 740	97 922	2 617
33331	Commercial and service industry machinery manufacturing	—	11	4	625	35 147	312	627	8 379	33 952	65 740	97 922	2 617
333314	Optical instrument and lens manufacturing	—	7	4	613	34 680	305	615	8 151	32 886	64 811	95 937	2 569
3339	Other general purpose machinery manufacturing	1	13	6	571	23 161	405	788	12 719	56 966	40 210	98 378	4 940
33399	All other general purpose machinery manufacturing	4	9	4	275	9 004	195	439	4 560	21 002	17 915	39 007	D
333999	All other miscellaneous general purpose machinery manufacturing	4	7	4	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	—	77	37	3 812	184 997	1 723	3 444	60 564	714 812	502 274	1 257 139	26 861
3342	Communications equipment manufacturing	—	14	11	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	—	10	10	1 100	59 678	341	653	11 241	403 842	334 810	777 490	16 950
334210	Telephone apparatus manufacturing	—	10	10	1 100	59 678	341	653	11 241	403 842	334 810	777 490	16 950
3344	Semiconductor and other electronic component manufacturing	—	29	13	1 385	55 516	745	1 565	26 311	168 137	72 662	243 367	4 803
33441	Semiconductor and other electronic component manufacturing	—	29	13	1 385	55 516	745	1 565	26 311	168 137	72 662	243 367	4 803
334412	Bare printed circuit board manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	—	7	4	280	13 505	139	300	6 920	84 327	26 554	111 515	1 270
334419	Other electronic component manufacturing	1	10	2	372	11 821	219	464	6 578	25 866	9 555	35 452	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	22	10	980	53 205	472	911	18 637	107 220	71 461	177 439	4 159
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	22	10	980	53 205	472	911	18 637	107 220	71 461	177 439	4 159
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	—	5	3	428	26 457	263	469	12 487	74 970	41 664	116 524	3 178
334518	Watch, clock, and part manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	—	18	9	844	47 822	521	953	17 396	260 935	41 956	306 438	5 756
3353	Electrical equipment manufacturing	—	8	3	371	15 865	174	261	5 809	37 547	21 689	61 129	D
33531	Electrical equipment manufacturing	—	8	3	371	15 865	174	261	5 809	37 547	21 689	61 129	D
3359	Other electrical equipment and component manufacturing	—	7	5	431	30 835	312	612	10 742	222 432	17 927	242 016	D
336	Transportation equipment manufacturing	—	12	4	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	30	5	314	11 561	216	415	6 532	20 000	12 561	31 747	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area—Con.												
	Rockingham County-Strafford County, NH Metropolitan Division—Con.												
339	Miscellaneous manufacturing	2	61	10	1 532	54 513	940	1 871	25 887	123 006	64 690	184 518	5 185
3391	Medical equipment and supplies manufacturing	3	25	5	898	36 933	524	1 063	16 488	75 527	40 356	112 693	3 989
33911	Medical equipment and supplies manufacturing	3	25	5	898	36 933	524	1 063	16 488	75 527	40 356	112 693	3 989
339111	Laboratory apparatus and furniture manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing	1	36	5	634	17 580	416	808	9 399	47 479	24 334	71 825	1 196
33999	All other miscellaneous manufacturing	—	14	3	454	12 487	296	560	6 861	23 127	17 235	40 436	D
	Concord, NH Micropolitan Statistical Area												
31-33	Manufacturing	—	220	82	7 869	296 807	5 770	11 163	182 616	644 114	632 099	1 282 487	48 010
315	Apparel manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	30	15	933	27 802	626	1 296	15 011	58 132	75 890	134 301	2 887
3219	Other wood product manufacturing	2	17	10	684	20 253	430	896	9 462	40 586	49 395	90 329	927
32191	Millwork	1	7	4	327	10 504	141	283	2 821	21 442	33 764	55 343	D
32199	All other wood product manufacturing	2	7	5	322	8 917	258	553	6 020	17 720	13 655	31 586	504
323	Printing and related support activities	—	26	10	795	33 813	583	1 192	21 761	76 203	40 995	118 054	18 013
3231	Printing and related support activities	—	26	10	795	33 813	583	1 192	21 761	76 203	40 995	118 054	18 013
32311	Printing	—	20	9	747	32 177	551	1 130	20 677	73 600	40 305	114 762	D
323110	Commercial lithographic printing	—	12	5	631	28 815	477	975	18 996	65 359	37 882	104 128	17 131
326	Plastics and rubber products manufacturing	—	6	4	461	16 599	317	579	10 548	27 319	28 656	56 432	D
3261	Plastics product manufacturing ..	—	4	4	e	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing ..	—	3	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	—	12	6	272	11 490	196	419	7 045	28 316	15 627	42 201	2 341
332	Fabricated metal product manufacturing	—	44	8	920	32 289	713	1 506	19 101	104 644	77 073	184 233	5 269
3329	Other fabricated metal product manufacturing	—	7	3	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	20	8	735	33 744	411	852	14 516	78 969	66 294	144 084	3 394
3333	Commercial and service industry machinery manufacturing	1	4	3	397	17 805	248	524	8 281	52 689	36 808	89 297	2 401
33331	Commercial and service industry machinery manufacturing	1	4	3	397	17 805	248	524	8 281	52 689	36 808	89 297	2 401
333319	Other commercial and service industry machinery manufacturing	1	3	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Concord, NH Micropolitan Statistical Area—Con.												
334	Computer and electronic product manufacturing	-	13	5	697	24 848	515	958	13 845	48 148	29 652	77 546	1 372
3344	Semiconductor and other electronic component manufacturing	-	5	3	e	D	D	D	D	D	D	D	1 099
33441	Semiconductor and other electronic component manufacturing	-	5	3	e	D	D	D	D	D	D	D	1 099
334413	Semiconductor and related device manufacturing	-	2	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	19	5	549	16 304	404	762	9 767	43 100	30 386	73 081	2 647
3399	Other miscellaneous manufacturing	-	12	4	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	-	5	3	e	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing	-	2	2	e	D	D	D	D	D	D	D	D
	Laconia, NH Micropolitan Statistical Area												
31-33	Manufacturing	1	121	37	3 343	118 424	2 258	4 580	66 115	267 679	218 388	483 970	17 014
331	Primary metal manufacturing	-	3	3	e	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	31	10	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	-	16	6	293	9 635	215	431	6 191	13 799	5 984	20 054	794
3329	Other fabricated metal product manufacturing	-	6	2	371	11 931	182	302	4 114	23 473	15 199	38 925	D
33299	All other fabricated metal product manufacturing	-	6	2	371	11 931	182	302	4 114	23 473	15 199	38 925	D
332999	All other miscellaneous fabricated metal product manufacturing	-	6	2	371	11 931	182	302	4 114	23 473	15 199	38 925	D
333	Machinery manufacturing	-	6	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	13	8	731	29 765	362	707	10 272	69 590	77 181	143 353	4 456
3344	Semiconductor and other electronic component manufacturing	-	7	4	345	11 809	229	439	6 571	27 983	26 612	51 225	D
33441	Semiconductor and other electronic component manufacturing	-	7	4	345	11 809	229	439	6 571	27 983	26 612	51 225	D
339	Miscellaneous manufacturing	-	14	5	302	9 372	227	458	6 134	31 522	28 476	59 891	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Manchester-Nashua, NH Metropolitan Statistical Area													
31-33	Manufacturing	1	678	236	31 667	1 453 038	18 372	37 291	604 425	3 418 772	2 738 818	6 088 367	252 764
311	Food manufacturing	1	18	6	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
31212	Breweries	—	1	1	e	D	D	D	D	D	D	D	D
312120	Breweries	—	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills	—	11	6	964	41 130	630	1 308	17 008	71 338	74 580	151 517	D
3132	Fabric mills	—	7	5	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills and schiffli machine embroidery	—	2	1	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	—	2	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	—	11	6	739	33 262	477	955	15 437	58 429	85 857	147 150	4 021
3222	Converted paper product manufacturing	—	10	5	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities	—	67	14	1 275	43 090	872	1 729	28 522	132 839	82 704	213 635	6 448
3231	Printing and related support activities	—	67	14	1 275	43 090	872	1 729	28 522	132 839	82 704	213 635	6 448
32311	Printing	—	62	13	1 236	41 743	846	1 689	27 762	130 336	82 233	210 661	D
323110	Commercial lithographic printing	1	26	7	310	11 672	217	427	7 379	20 936	10 850	31 700	1 836
323112	Commercial flexographic printing	—	3	3	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	17	4	333	16 808	179	379	7 310	43 311	45 845	90 209	1 395
326	Plastics and rubber products manufacturing	1	37	19	1 959	75 902	1 447	3 083	48 079	237 690	164 813	401 988	16 960
3261	Plastics product manufacturing ..	1	36	19	g	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing ..	—	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
326160	Plastics bottle manufacturing	—	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
32619	Other plastics product manufacturing	2	20	7	1 035	39 728	759	1 620	22 587	100 031	62 573	162 066	8 697
326199	All other plastics product manufacturing	2	19	7	g	D	D	D	D	D	D	D	8 697
327	Nonmetallic mineral product manufacturing	1	19	7	480	17 947	381	769	12 298	44 975	24 543	69 855	3 457
3273	Cement and concrete product manufacturing	1	9	5	355	13 600	286	580	9 617	33 192	17 534	50 739	1 929
331	Primary metal manufacturing	—	11	5	1 490	56 182	1 035	1 644	41 797	90 872	69 813	163 976	D
3313	Alumina and aluminum production and processing	—	4	2	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	4	2	e	D	D	D	D	D	D	D	D
3315	Foundries	—	6	3	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	2	2	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	—	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	136	41	2 986	109 338	2 265	4 522	70 265	240 675	108 220	349 682	13 754
3323	Architectural and structural metals manufacturing	1	27	13	896	26 619	715	1 387	16 503	63 894	46 359	108 963	1 693
33231	Plate work and fabricated structural product manufacturing	—	7	3	516	14 318	422	901	9 218	26 272	29 625	54 764	432
332311	Prefabricated metal building and component manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing	1	20	10	380	12 301	293	486	7 285	37 622	16 734	54 199	1 261
332322	Sheet metal work manufacturing	2	16	7	263	8 814	195	346	5 043	26 953	10 373	37 272	505

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Manchester-Nashua, NH Metropolitan Statistical Area—Con.												
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	1	74	16	888	36 792	641	1 279	24 883	82 718	23 145	105 649	5 993
33271	Machine shops	2	62	9	508	21 742	366	738	14 917	51 183	13 871	65 095	2 243
33272	Machine shops	2	62	9	508	21 742	366	738	14 917	51 183	13 871	65 095	2 243
33272	Turned product and screw, nut, and bolt manufacturing	—	12	7	380	15 050	275	541	9 966	31 535	9 274	40 554	3 750
3329	Other fabricated metal product manufacturing	—	7	5	728	28 470	548	1 119	17 854	61 371	25 848	89 807	3 676
33299	All other fabricated metal product manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing	2	59	19	1 836	100 178	818	1 631	32 757	231 717	170 042	403 146	13 334
3332	Industrial machinery manufacturing	2	19	6	778	43 272	404	789	16 182	100 343	76 467	180 644	D
33329	Other industrial machinery manufacturing	2	17	6	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery manufacturing	9	3	1	e	D	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	—	10	3	609	34 292	189	403	7 673	81 061	65 452	145 526	D
33331	Commercial and service industry machinery manufacturing	—	10	3	609	34 292	189	403	7 673	81 061	65 452	145 526	D
333314	Optical instrument and lens manufacturing	—	6	2	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	—	120	61	12 066	676 313	4 868	10 302	168 347	1 341 911	1 176 249	2 422 532	86 421
3341	Computer and peripheral equipment manufacturing	5	9	5	e	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	5	9	5	e	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	3	19	11	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	3	6	4	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	3	6	4	e	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	4	12	7	e	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	4	12	7	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	58	31	5 033	206 728	3 006	6 434	97 710	285 743	559 380	827 725	31 792
33441	Semiconductor and other electronic component manufacturing	—	58	31	5 033	206 728	3 006	6 434	97 710	285 743	559 380	827 725	31 792
334412	Bare printed circuit board manufacturing	—	9	7	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	—	15	11	1 432	52 623	975	1 887	33 693	102 438	228 418	316 379	3 821
334419	Other electronic component manufacturing	1	17	7	590	24 789	293	607	7 896	50 161	27 600	79 228	3 684
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	28	12	5 777	397 143	1 518	3 180	55 317	905 324	501 736	1 330 968	47 916

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Manchester-Nashua, NH Metropolitan Statistical Area—Con.												
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . .	—	28	12	5 777	397 143	1 518	3 180	55 317	905 324	501 736	1 330 968	47 916
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	2	2	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	—	3	1	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	1	7	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	—	20	11	2 375	95 189	1 721	3 623	61 349	307 140	292 166	600 271	19 301
3351	Electric lighting equipment manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	—	7	4	317	9 759	277	482	6 950	47 802	79 646	126 028	D
33531	Electrical equipment manufacturing	—	7	4	317	9 759	277	482	6 950	47 802	79 646	126 028	D
335314	Relay and industrial control manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	—	10	5	e	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing	—	5	4	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing	—	4	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	10	5	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	29	4	277	8 341	179	352	4 895	15 697	12 279	28 091	D
339	Miscellaneous manufacturing	3	65	17	2 578	98 976	1 747	3 542	50 350	262 740	152 633	425 705	14 972
3391	Medical equipment and supplies manufacturing	7	26	6	1 063	43 013	658	1 341	18 533	118 563	50 952	174 728	4 773
33911	Medical equipment and supplies manufacturing	7	26	6	1 063	43 013	658	1 341	18 533	118 563	50 952	174 728	4 773
339111	Laboratory apparatus and furniture manufacturing	9	3	3	398	17 628	220	450	5 719	42 610	26 557	69 123	D
339112	Surgical and medical instrument manufacturing	8	4	2	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing	—	39	11	1 515	55 963	1 089	2 201	31 817	144 177	101 681	250 977	10 199
33999	All other miscellaneous manufacturing	—	17	7	1 207	45 353	921	1 958	27 545	126 592	83 836	215 404	9 687
339991	Gasket, packing, and sealing device manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
339995	Burial casket manufacturing	—	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Worcester, MA Metropolitan Statistical Area													
31-33	Manufacturing	1	1 243	435	50 060	2 155 257	32 624	63 049	1 068 201	5 870 004	4 531 540	10 452 765	342 131
311	Food manufacturing	3	58	15	1 199	36 329	804	1 480	22 646	94 089	109 728	203 219	9 824
3112	Grain and oilseed milling	—	1	1	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	4	34	8	532	14 320	349	627	9 003	35 682	35 829	71 327	1 207
31181	Bread and bakery product manufacturing	4	34	8	532	14 320	349	627	9 003	35 682	35 829	71 327	1 207
312	Beverage and tobacco product manufacturing	9	7	1	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	9	7	1	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing	9	3	1	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing	9	3	1	f	D	D	D	D	D	D	D	D
313	Textile mills	4	21	10	1 026	35 459	756	1 652	22 929	105 973	138 465	235 758	D
3132	Fabric mills	9	4	3	322	8 082	224	471	6 827	10 796	20 350	31 701	D
3133	Textile and fabric finishing and fabric coating mills	3	11	6	628	25 783	462	1 042	14 731	92 872	113 743	197 380	D
31331	Textile and fabric finishing mills	4	5	2	372	12 635	314	728	8 641	69 607	80 199	140 112	D
313311	Broadwoven fabric finishing mills	4	5	2	372	12 635	314	728	8 641	69 607	80 199	140 112	D
31332	Fabric coating mills	—	6	4	256	13 148	148	314	6 090	23 265	33 544	57 268	727
313320	Fabric coating mills	—	6	4	256	13 148	148	314	6 090	23 265	33 544	57 268	727
314	Textile product mills	1	18	5	726	21 630	534	972	11 142	53 737	57 342	111 414	1 007
3149	Other textile product mills	1	11	4	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	—	8	3	617	18 811	451	807	9 802	49 379	51 816	100 395	901
314999	All other miscellaneous textile product mills	—	8	3	617	18 811	451	807	9 802	49 379	51 816	100 395	901
315	Apparel manufacturing	9	7	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	37	8	593	16 104	431	791	10 643	29 538	28 984	58 289	1 494
3219	Other wood product manufacturing	1	30	7	513	13 313	367	701	8 504	23 897	20 539	44 219	D
32192	Wood container and pallet manufacturing	1	13	5	376	9 306	269	528	6 126	14 582	13 715	28 180	561
321920	Wood container and pallet manufacturing	1	13	5	376	9 306	269	528	6 126	14 582	13 715	28 180	561
322	Paper manufacturing	1	36	26	3 420	147 839	2 406	4 845	91 313	386 644	431 385	825 550	19 529
3221	Pulp, paper, and paperboard mills	3	4	4	465	26 126	302	659	15 091	75 565	91 633	166 224	4 860
32212	Paper mills	3	4	4	465	26 126	302	659	15 091	75 565	91 633	166 224	4 860
322121	Paper (except newsprint) mills	3	4	4	465	26 126	302	659	15 091	75 565	91 633	166 224	4 860
3222	Converted paper product manufacturing	—	32	22	2 955	121 713	2 104	4 186	76 222	311 079	339 752	659 326	14 669
32221	Paperboard container manufacturing	—	15	11	884	33 525	615	1 257	19 805	85 820	107 758	194 084	9 929
322211	Corrugated and solid fiber box manufacturing	—	12	9	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing	—	6	2	1 043	49 120	695	1 353	26 338	70 812	134 363	211 757	1 276
322222	Coated and laminated paper manufacturing	—	6	2	1 043	49 120	695	1 353	26 338	70 812	134 363	211 757	1 276
32223	Stationery product manufacturing	1	6	5	672	25 338	524	1 021	21 490	48 584	52 143	102 193	1 972
322232	Envelope manufacturing	1	5	5	f	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing	—	5	4	356	13 730	270	555	8 589	105 863	45 488	151 292	1 492
322299	All other converted paper product manufacturing	—	5	4	356	13 730	270	555	8 589	105 863	45 488	151 292	1 492
323	Printing and related support activities	2	97	20	1 683	63 157	1 182	2 066	38 556	119 297	66 892	186 869	7 423
3231	Printing and related support activities	2	97	20	1 683	63 157	1 182	2 066	38 556	119 297	66 892	186 869	7 423
32311	Printing	2	83	18	1 580	59 151	1 104	1 916	35 990	112 834	64 971	178 230	6 853
323110	Commercial lithographic printing	—	45	11	1 109	41 210	779	1 316	25 853	78 039	43 180	121 576	5 472

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Worcester, MA Metropolitan Statistical Area—Con.												
325	Chemical manufacturing	—	53	26	2 108	107 428	1 071	2 211	46 144	819 589	658 466	1 475 822	22 260
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	—	8	7	373	19 386	204	435	8 183	69 850	214 732	281 434	2 327
32521	Resin and synthetic rubber manufacturing	—	8	7	373	19 386	204	435	8 183	69 850	214 732	281 434	2 327
325211	Plastics material and resin manufacturing	1	7	6	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	—	9	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	—	9	4	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	—	6	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	1	20	9	657	32 508	327	685	12 394	88 455	137 206	226 237	3 672
32599	All other chemical product and preparation manufacturing	1	19	9	f	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins	—	13	8	572	28 600	273	580	10 274	71 311	124 228	196 116	D
326	Plastics and rubber products manufacturing	—	103	58	6 664	197 867	5 120	8 189	126 446	687 906	475 630	1 167 665	41 079
3261	Plastics product manufacturing ..	—	99	56	i	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	—	9	3	303	15 014	199	417	9 448	27 527	40 208	69 800	1 745
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	—	5	2	259	8 386	180	221	3 756	19 184	10 859	29 610	D
326121	Unlaminated plastics profile shape manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	—	73	44	5 411	148 531	4 222	6 604	97 664	586 877	380 111	970 301	D
326199	All other plastics product manufacturing	—	72	44	i	D	D	D	D	D	D	D	35 357
3262	Rubber product manufacturing ...	—	4	2	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	2	43	21	3 613	175 409	2 287	4 983	79 930	367 265	224 386	592 841	16 177
3271	Clay product and refractory manufacturing	2	7	4	426	16 118	317	603	9 410	49 205	20 583	70 779	1 241
32712	Clay building material and refractories manufacturing	2	3	2	e	D	D	D	D	D	D	D	D
327125	Nonclay refractory manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	4	7	5	1 030	48 765	701	1 594	22 622	90 627	67 151	158 325	D
32721	Glass and glass product manufacturing	4	7	5	1 030	48 765	701	1 594	22 622	90 627	67 151	158 325	D
327215	Glass product manufacturing made of purchased glass ..	8	5	4	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	—	11	9	g	D	D	D	D	D	D	D	D
32791	Abrasive product manufacturing	—	9	8	1 883	99 516	1 053	2 307	39 399	196 619	107 874	304 073	8 205
327910	Abrasive product manufacturing	—	9	8	1 883	99 516	1 053	2 307	39 399	196 619	107 874	304 073	8 205
331	Primary metal manufacturing	2	21	9	781	29 513	565	1 252	19 918	53 811	72 819	126 624	D
3314	Nonferrous metal (except aluminum) production and processing	3	7	4	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying	2	5	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Worcester, MA Metropolitan Statistical Area—Con.													
332	Fabricated metal product manufacturing	1	272	83	8 081	318 266	5 845	11 439	187 693	635 630	507 934	1 165 787	38 983
3321	Forging and stamping.....	-	15	10	1 220	51 266	939	1 877	34 431	145 852	122 221	285 856	8 104
33211	Forging and stamping.....	-	15	10	1 220	51 266	939	1 877	34 431	145 852	122 221	285 856	8 104
332111	Iron and steel forging	-	2	2	f	D	D	D	D	D	D	D	D
332117	Powder metallurgy part manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing	-	11	7	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing	-	11	7	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing	-	9	5	1 165	37 656	845	1 528	22 495	77 768	35 348	116 183	3 187
332213	Saw blade and handsaw manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	1	42	13	980	36 132	705	1 432	21 510	48 976	39 229	102 947	3 773
33231	Plate work and fabricated structural product manufacturing	-	15	6	435	18 266	311	653	11 292	18 724	23 121	55 520	2 413
332313	Plate work manufacturing	-	7	4	324	12 942	239	508	8 317	9 206	15 529	38 667	1 463
33232	Ornamental and architectural metal products manufacturing	2	27	7	545	17 866	394	779	10 218	30 252	16 108	47 427	1 360
332322	Sheet metal work manufacturing	3	24	6	f	D	D	D	D	D	D	D	D
3325	Hardware manufacturing	4	4	4	309	11 939	237	527	7 270	24 662	16 789	41 377	2 918
33251	Hardware manufacturing	4	4	4	309	11 939	237	527	7 270	24 662	16 789	41 377	2 918
332510	Hardware manufacturing	4	4	4	309	11 939	237	527	7 270	24 662	16 789	41 377	2 918
3326	Spring and wire product manufacturing	-	18	10	816	27 961	637	1 234	17 243	61 826	63 124	126 346	8 981
33261	Spring and wire product manufacturing	-	18	10	816	27 961	637	1 234	17 243	61 826	63 124	126 346	8 981
332612	Spring (light gauge) manufacturing	-	4	2	e	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing	1	13	8	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	127	25	1 469	58 238	1 106	2 064	37 872	109 443	50 939	163 990	3 685
33271	Machine shops	3	111	17	958	37 022	739	1 421	25 422	68 178	28 526	96 869	2 440
332710	Machine shops	3	111	17	958	37 022	739	1 421	25 422	68 178	28 526	96 869	2 440
33272	Turned product and screw, nut, and bolt manufacturing	-	16	8	511	21 216	367	643	12 450	41 265	22 413	67 121	1 245
332721	Precision turned product manufacturing	-	10	5	387	17 323	268	474	9 707	35 670	18 205	56 892	D
3328	Coating, engraving, heat treating, and allied activities	1	25	6	e	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	1	25	6	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	-	30	8	g	D	D	D	D	D	D	D	4 054
33291	Metal valve manufacturing	-	9	4	770	43 298	466	957	18 350	63 284	125 996	171 959	D
332911	Industrial valve manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	21	4	f	D	D	D	D	D	D	D	D
332994	Small arms manufacturing...	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	146	48	4 608	228 489	2 878	5 950	114 206	404 105	281 049	699 749	22 644
3332	Industrial machinery manufacturing	1	20	4	404	22 211	207	393	7 564	31 366	30 722	65 831	1 796
3333	Commercial and service industry machinery manufacturing	-	15	8	788	34 672	525	1 134	18 694	72 868	28 330	101 212	3 727
33331	Commercial and service industry machinery manufacturing	-	15	8	788	34 672	525	1 134	18 694	72 868	28 330	101 212	3 727
333314	Optical instrument and lens manufacturing	-	14	7	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.												
	Worcester, MA Metropolitan Statistical Area—Con.												
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing	—	71	19	2 179	109 318	1 402	2 882	56 938	175 273	133 499	316 227	13 261
33351	Metalworking machinery manufacturing	—	71	19	2 179	109 318	1 402	2 882	56 938	175 273	133 499	316 227	13 261
333511	Industrial mold manufacturing	—	32	8	992	46 643	675	1 379	24 818	71 699	61 106	135 698	7 958
333515	Cutting tool and machine tool accessory manufacturing ...	1	10	4	316	15 404	228	463	10 676	27 980	9 916	37 455	1 696
333516	Rolling mill machinery and equipment manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing	5	6	4	292	16 140	193	407	9 512	38 222	22 831	61 085	1 713
33361	Engine, turbine, and power transmission equipment manufacturing	5	6	4	292	16 140	193	407	9 512	38 222	22 831	61 085	1 713
3339	Other general purpose machinery manufacturing	1	28	10	666	32 634	374	744	14 600	64 714	47 282	112 899	D
33399	All other general purpose machinery manufacturing	2	21	6	430	21 363	242	475	9 105	34 704	29 020	65 047	595
333999	All other miscellaneous general purpose machinery manufacturing	2	14	4	271	11 440	171	317	5 464	24 191	13 931	38 687	250
334	Computer and electronic product manufacturing	—	78	34	6 694	421 651	3 004	5 842	117 151	1 263 782	817 945	2 094 011	110 153
3342	Communications equipment manufacturing	—	13	8	2 374	148 222	949	1 917	36 242	539 266	310 633	851 754	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	1	6	3	e	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	1	6	3	e	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing	—	6	4	g	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	—	6	4	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	26	11	2 158	117 464	1 434	2 702	60 723	310 710	298 731	622 291	57 976
33441	Semiconductor and other electronic component manufacturing	—	26	11	2 158	117 464	1 434	2 702	60 723	310 710	298 731	622 291	57 976
334412	Bare printed circuit board manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	—	7	4	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	9	4	392	18 563	265	486	10 266	61 245	13 837	74 281	10 060
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	26	9	1 536	122 859	336	628	10 625	351 926	173 212	522 274	32 278
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	26	9	1 536	122 859	336	628	10 625	351 926	173 212	522 274	32 278
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	5	2	257	11 376	184	356	5 618	23 805	20 485	44 403	D
334516	Analytical laboratory instrument manufacturing ..	—	6	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	3	33	17	2 650	130 873	1 700	3 686	68 190	341 244	286 511	627 845	13 575
3353	Electrical equipment manufacturing	2	9	4	f	D	D	D	D	D	D	D	5 499
33531	Electrical equipment manufacturing	2	9	4	f	D	D	D	D	D	D	D	5 499
335312	Motor and generator manufacturing	3	2	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA—Con.													
Worcester, MA Metropolitan Statistical Area—Con.													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing	3	22	12	1 866	87 992	1 213	2 673	45 966	269 441	246 985	518 394	D
33592	Communication and energy wire and cable manufacturing	3	12	9	1 375	66 208	950	2 137	37 900	221 440	215 191	438 624	6 187
335929	Other communication and energy wire manufacturing	3	11	9	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	9	7	1	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing	9	5	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	3	16	4	261	12 943	176	353	6 716	21 377	23 728	44 755	D
337	Furniture and related product manufacturing	—	74	26	2 336	87 931	1 503	3 000	41 676	159 625	107 710	267 079	3 604
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	49	16	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing	—	35	14	1 104	31 248	900	1 750	21 206	55 361	56 137	111 031	1 330
337122	Nonupholstered wood household furniture manufacturing	1	23	8	624	17 931	521	1 106	12 524	25 922	37 628	62 953	D
3372	Office furniture (including fixtures) manufacturing	—	23	10	1 084	52 303	524	1 127	18 393	95 813	46 521	142 622	1 549
33721	Office furniture (including fixtures) manufacturing	—	23	10	1 084	52 303	524	1 127	18 393	95 813	46 521	142 622	1 549
337212	Custom architectural woodwork and millwork manufacturing	—	13	5	348	20 466	188	375	7 024	28 705	13 110	41 885	1 128
337214	Office furniture (except wood) manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	110	20	2 448	84 726	1 779	3 221	48 079	214 173	99 172	314 436	19 852
3391	Medical equipment and supplies manufacturing	—	42	7	1 407	52 913	1 042	1 754	31 004	143 816	44 333	189 043	14 321
33911	Medical equipment and supplies manufacturing	—	42	7	1 407	52 913	1 042	1 754	31 004	143 816	44 333	189 043	14 321
339115	Ophthalmic goods manufacturing	—	5	3	1 080	40 593	791	1 226	23 693	108 172	30 173	139 077	10 905
3399	Other miscellaneous manufacturing	4	68	13	1 041	31 813	737	1 467	17 075	70 357	54 839	125 393	5 531
33999	All other miscellaneous manufacturing	5	32	9	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing	6	23	5	569	15 381	413	826	8 621	35 252	32 519	68 002	D
BERLIN, NH-VT MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	55	16	2 183	67 078	1 814	3 535	51 275	146 594	190 528	355 965	12 878
322	Paper manufacturing	1	4	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	1	4	3	f	D	D	D	D	D	D	D	D
32212	Paper mills	1	3	2	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	1	3	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	—	5	2	723	16 396	631	1 234	13 554	27 449	18 798	46 607	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	—	5	2	723	16 396	631	1 234	13 554	27 449	18 798	46 607	D
33712	Household and institutional furniture manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing	—	4	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
KEENE, NH MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	2	170	51	6 415	244 915	4 352	8 511	127 414	555 335	388 131	927 010	32 839
313	Textile mills	-	3	1	e	D	D	D	D	D	D	D	D
3131	Fiber, yarn, and thread mills	-	1	1	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, and thread mills	-	1	1	e	D	D	D	D	D	D	D	D
313113	Thread mills	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	20	8	607	16 622	519	957	12 602	31 820	46 217	77 792	1 724
3219	Other wood product manufacturing	1	16	6	527	14 397	447	792	10 707	27 116	37 435	64 278	1 224
32191	Millwork	1	6	3	402	11 308	345	620	8 401	20 630	31 734	52 087	1 064
321918	Other millwork (including flooring)	2	4	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	3	7	4	308	15 518	144	322	5 064	37 554	20 284	57 601	964
326	Plastics and rubber products manufacturing	-	10	5	598	21 674	418	843	12 247	43 597	23 963	66 403	2 080
3261	Plastics product manufacturing ..	-	6	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	-	4	3	289	9 147	218	428	5 918	21 613	12 746	33 802	742
326199	All other plastics product manufacturing	-	4	3	289	9 147	218	428	5 918	21 613	12 746	33 802	742
3262	Rubber product manufacturing ...	-	4	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing	-	3	1	e	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use	-	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	3	30	6	1 264	40 195	969	1 873	30 462	97 245	52 142	150 254	7 127
3329	Other fabricated metal product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	14	8	1 367	71 402	711	1 534	24 578	150 398	84 321	232 994	5 792
3339	Other general purpose machinery manufacturing	-	6	3	1 010	55 115	489	1 110	16 951	121 970	63 662	180 773	D
33399	All other general purpose machinery manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	20	6	1 059	45 374	656	1 331	22 280	126 759	83 191	196 485	D
3391	Medical equipment and supplies manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	-	4	2	f	D	D	D	D	D	D	D	D
LEBANON, NH-VT MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	338	94	9 332	306 113	6 633	12 916	185 244	810 587	543 506	1 353 369	42 835
321	Wood product manufacturing	2	46	17	934	27 078	750	1 523	19 390	69 406	85 070	153 329	3 661
3211	Sawmills and wood preservation ..	3	16	7	387	12 848	314	632	9 355	20 652	40 855	61 529	1 801
32111	Sawmills and wood preservation	3	16	7	387	12 848	314	632	9 355	20 652	40 855	61 529	1 801
321113	Sawmills	3	15	6	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	-	27	8	457	11 958	361	737	8 259	43 435	37 339	79 243	1 724
32199	All other wood product manufacturing	-	15	5	275	7 109	203	425	4 706	13 863	13 934	28 003	252
323	Printing and related support activities	-	38	6	670	23 491	472	830	14 472	43 888	25 248	69 020	4 198
3231	Printing and related support activities	-	38	6	670	23 491	472	830	14 472	43 888	25 248	69 020	4 198
32311	Printing	-	33	6	641	22 640	451	804	13 906	42 308	24 656	66 845	3 991
323110	Commercial lithographic printing	-	13	4	505	18 705	362	679	11 510	34 303	21 185	55 414	3 205

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
LEBANON, NH-VT MICROPOLITAN STATISTICAL AREA—Con.													
326	Plastics and rubber products manufacturing	2	9	5	654	22 875	499	1 035	13 584	59 776	33 383	90 731	5 437
3261	Plastics product manufacturing ..	2	9	5	654	22 875	499	1 035	13 584	59 776	33 383	90 731	5 437
32619	Other plastics product manufacturing	3	7	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	3	7	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	—	24	8	329	10 237	224	443	7 128	38 828	13 991	52 777	958
332	Fabricated metal product manufacturing	1	36	7	973	39 020	732	1 483	25 067	86 199	29 440	113 498	4 778
3329	Other fabricated metal product manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	40	18	1 895	73 627	1 073	2 228	32 593	168 173	125 487	294 432	10 884
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	3	2	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	3	2	e	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing	2	2	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	3	21	8	466	17 432	311	619	10 256	33 448	18 573	55 186	5 820
33351	Metalworking machinery manufacturing	3	21	8	466	17 432	311	619	10 256	33 448	18 573	55 186	5 820
3339	Other general purpose machinery manufacturing	—	7	4	891	40 672	439	951	14 473	109 546	73 689	181 066	3 426
33399	All other general purpose machinery manufacturing	—	7	4	891	40 672	439	951	14 473	109 546	73 689	181 066	3 426
333992	Welding and soldering equipment manufacturing ..	—	4	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	—	13	4	302	11 342	206	411	5 363	20 173	12 491	32 711	1 130
335	Electrical equipment, appliance, and component manufacturing	—	8	5	f	D	D	D	D	D	D	D	2 394
3359	Other electrical equipment and component manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	—	26	7	1 036	27 470	885	1 699	21 885	113 787	34 210	148 109	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	—	21	7	1 022	27 058	876	1 683	21 651	113 149	33 762	147 021	D
33712	Household and institutional furniture manufacturing	—	18	7	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing	—	16	7	f	D	D	D	D	D	D	D	1 367
339	Miscellaneous manufacturing	—	32	6	592	18 056	416	770	11 396	39 481	41 387	81 249	4 954
3399	Other miscellaneous manufacturing	—	26	4	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	—	10	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Industries with 250 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 250 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: 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. For geographical definitions, see Appendix D.

Table 3. Industry Statistics for Counties: 2002

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BELKNAP													
31-33	Manufacturing	1	121	37	3 343	118 424	2 258	4 580	66 115	267 679	218 388	483 970	17 014
332	Fabricated metal product manufacturing	-	31	10	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	13	8	731	29 765	362	707	10 272	69 590	77 181	143 353	4 456
CARROLL													
31-33	Manufacturing	1	85	16	1 053	34 025	776	1 532	21 710	65 028	70 918	136 258	3 441
CHESHIRE													
31-33	Manufacturing	2	170	51	6 415	244 915	4 352	8 511	127 414	555 335	388 131	927 010	32 839
321	Wood product manufacturing	2	20	8	607	16 622	519	957	12 602	31 820	46 217	77 792	1 724
3219	Other wood product manufacturing	1	16	6	527	14 397	447	792	10 707	27 116	37 435	64 278	1 224
326	Plastics and rubber products manufacturing	-	10	5	598	21 674	418	843	12 247	43 597	23 963	66 403	D
332	Fabricated metal product manufacturing	3	30	6	1 264	40 195	969	1 873	30 462	97 245	52 142	150 254	7 127
3329	Other fabricated metal product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	14	8	1 367	71 402	711	1 534	24 578	150 398	84 321	232 994	5 792
3339	Other general purpose machinery manufacturing	-	6	3	1 010	55 115	489	1 110	16 951	121 970	63 662	180 773	D
33399	All other general purpose machinery manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	20	6	1 059	45 374	656	1 331	22 280	126 759	83 191	196 485	D
3391	Medical equipment and supplies manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	-	4	2	f	D	D	D	D	D	D	D	D
COOS													
31-33	Manufacturing	1	39	12	1 392	46 159	1 141	2 192	34 108	105 826	156 208	280 949	10 173
GRAFTON													
31-33	Manufacturing	-	138	49	5 430	185 043	3 776	7 454	109 669	457 035	340 563	798 914	21 251
321	Wood product manufacturing	2	24	12	598	17 397	485	977	12 882	42 682	50 518	93 240	1 979
323	Printing and related support activities	-	19	5	541	19 597	380	706	12 308	36 741	21 708	58 378	D
3231	Printing and related support activities	-	19	5	541	19 597	380	706	12 308	36 741	21 708	58 378	D
32311	Printing	-	18	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	14	5	f	D	D	D	D	D	D	D	4 595
3329	Other fabricated metal product manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	13	8	1 109	47 816	600	1 325	19 246	129 205	89 781	216 805	4 436
3339	Other general purpose machinery manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
333992	Welding and soldering equipment manufacturing ..	-	4	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	-	6	4	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	-	4	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
HILLSBOROUGH													
31-33	Manufacturing	1	678	236	31 667	1 453 038	18 372	37 291	604 425	3 418 772	2 738 818	6 088 367	252 764
312	Beverage and tobacco product manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
313	Textile mills	-	11	6	964	41 130	630	1 308	17 008	71 338	74 580	151 517	D
3132	Fabric mills	-	7	5	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills and schiffli machine embroidery	-	2	1	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	-	2	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	-	11	6	739	33 262	477	955	15 437	58 429	85 857	147 150	4 021
3222	Converted paper product manufacturing	-	10	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	-	67	14	1 275	43 090	872	1 729	28 522	132 839	82 704	213 635	6 448
3231	Printing and related support activities	-	67	14	1 275	43 090	872	1 729	28 522	132 839	82 704	213 635	6 448
32311	Printing	-	62	13	1 236	41 743	846	1 689	27 762	130 336	82 233	210 661	D
323112	Commercial flexographic printing	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	37	19	1 959	75 902	1 447	3 083	48 079	237 690	164 813	401 988	16 960
3261	Plastics product manufacturing ..	1	36	19	g	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing ..	-	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
326160	Plastics bottle manufacturing ..	-	8	8	678	26 055	541	1 156	20 554	114 042	83 297	197 280	6 048
32619	Other plastics product manufacturing	2	20	7	g	D	D	D	D	D	D	D	8 697
326199	All other plastics product manufacturing	2	19	7	g	D	D	D	D	D	D	D	8 697
331	Primary metal manufacturing	-	11	5	1 490	56 182	1 035	1 644	41 797	90 872	69 813	163 976	D
3315	Foundries	-	6	3	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	2	2	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	136	41	2 986	109 338	2 265	4 522	70 265	240 675	108 220	349 682	13 754
3323	Architectural and structural metals manufacturing	1	27	13	896	26 619	715	1 387	16 503	63 894	46 359	108 963	1 693
33231	Plate work and fabricated structural product manufacturing	-	7	3	516	14 318	422	901	9 218	26 272	29 625	54 764	432
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	1	74	16	888	36 792	641	1 279	24 883	82 718	23 145	105 649	5 993
33271	Machine shops	2	62	9	508	21 742	366	738	14 917	51 183	13 871	65 095	2 243
332710	Machine shops	2	62	9	508	21 742	366	738	14 917	51 183	13 871	65 095	2 243
3329	Other fabricated metal product manufacturing	-	7	5	728	28 470	548	1 119	17 854	61 371	25 848	89 807	3 676
33299	All other fabricated metal product manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	2	59	19	1 836	100 178	818	1 631	32 757	231 717	170 042	403 146	13 334
3332	Industrial machinery manufacturing	2	19	6	778	43 272	404	789	16 182	100 343	76 467	180 644	D
33329	Other industrial machinery manufacturing	2	17	6	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	-	10	3	609	34 292	189	403	7 673	81 061	65 452	145 526	D
33331	Commercial and service industry machinery manufacturing	-	10	3	609	34 292	189	403	7 673	81 061	65 452	145 526	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
HILLSBOROUGH—Con.													
334	Computer and electronic product manufacturing	—	120	61	12 066	676 313	4 868	10 302	168 347	1 341 911	1 176 249	2 422 532	86 421
3342	Communications equipment manufacturing	3	19	11	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	58	31	5 033	206 728	3 006	6 434	97 710	285 743	559 380	827 725	D
33441	Semiconductor and other electronic component manufacturing	—	58	31	5 033	206 728	3 006	6 434	97 710	285 743	559 380	827 725	D
334412	Bare printed circuit board manufacturing	—	9	7	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	—	15	11	1 432	52 623	975	1 887	33 693	102 438	228 418	316 379	3 821
334419	Other electronic component manufacturing	1	17	7	590	24 789	293	607	7 896	50 161	27 600	79 228	3 684
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	28	12	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing	—	28	12	i	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	2	2	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	—	20	11	2 375	95 189	1 721	3 623	61 349	307 140	292 166	600 271	19 301
3351	Electric lighting equipment manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	10	5	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	3	65	17	2 578	98 976	1 747	3 542	50 350	262 740	152 633	425 705	14 972
3391	Medical equipment and supplies manufacturing	7	26	6	1 063	43 013	658	1 341	18 533	118 563	50 952	174 728	4 773
33911	Medical equipment and supplies manufacturing	7	26	6	1 063	43 013	658	1 341	18 533	118 563	50 952	174 728	4 773
3399	Other miscellaneous manufacturing	—	39	11	1 515	55 963	1 089	2 201	31 817	144 177	101 681	250 977	10 199
33999	All other miscellaneous manufacturing	—	17	7	1 207	45 353	921	1 958	27 545	126 592	83 836	215 404	9 687
339991	Gasket, packing, and sealing device manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
MERRIMACK													
31-33	Manufacturing	—	220	82	7 869	296 807	5 770	11 163	182 616	644 114	632 099	1 282 487	48 010
321	Wood product manufacturing	2	30	15	933	27 802	626	1 296	15 011	58 132	75 890	134 301	2 887
3219	Other wood product manufacturing	2	17	10	684	20 253	430	896	9 462	40 586	49 395	90 329	927
323	Printing and related support activities	—	26	10	795	33 813	583	1 192	21 761	76 203	40 995	118 054	18 013
3231	Printing and related support activities	—	26	10	795	33 813	583	1 192	21 761	76 203	40 995	118 054	18 013
32311	Printing	—	20	9	747	32 177	551	1 130	20 677	73 600	40 305	114 762	D
323110	Commercial lithographic printing	—	12	5	631	28 815	477	975	18 996	65 359	37 882	104 128	17 131
332	Fabricated metal product manufacturing	—	44	8	920	32 289	713	1 506	19 101	104 644	77 073	184 233	5 269
3329	Other fabricated metal product manufacturing	—	7	3	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	20	8	735	33 744	411	852	14 516	78 969	66 294	144 084	3 394

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
MERRIMACK—Con.													
334	Computer and electronic product manufacturing	—	13	5	697	24 848	515	958	13 845	48 148	29 652	77 546	1 372
336	Transportation equipment manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	—	19	5	549	16 304	404	762	9 767	43 100	30 386	73 081	2 647
ROCKINGHAM													
31-33	Manufacturing	1	493	147	16 061	669 583	10 284	20 486	333 972	'2 128 331	1 489 229	'3 658 874	87 712
311	Food manufacturing	3	29	5	f	D	D	D	D	D	D	D	D
314	Textile product mills	9	17	2	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	9	11	1	f	D	D	D	D	D	D	D	D
31499	All other textile product mills ...	9	3	1	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	9	3	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	4	22	6	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	4	17	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	2	43	8	f	D	D	D	D	D	D	D	1 959
3231	Printing and related support activities	2	43	8	f	D	D	D	D	D	D	D	1 959
325	Chemical manufacturing	1	16	6	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	2	25	10	1 632	53 521	1 278	2 649	36 219	102 551	65 590	168 338	6 476
3261	Plastics product manufacturing ..	1	23	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	15	4	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	1	15	4	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	—	16	7	928	37 972	674	1 476	24 316	154 687	101 897	258 224	5 622
3272	Glass and glass product manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	109	26	2 173	88 921	1 605	3 077	57 305	214 203	130 706	350 358	7 615
3323	Architectural and structural metals manufacturing	1	21	8	633	25 995	487	895	18 446	61 120	49 810	114 812	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	5	57	6	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	—	11	7	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	37	15	g	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	—	9	4	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing	—	9	4	f	D	D	D	D	D	D	D	D
333314	Optical instrument and lens manufacturing	—	7	4	613	34 680	305	615	8 151	32 886	64 811	95 937	2 569

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
ROCKINGHAM—Con.													
334	Computer and electronic product manufacturing	-	65	29	2 845	138 941	1 212	2 458	42 386	619 373	443 052	1 101 421	24 533
3342	Communications equipment manufacturing	-	12	9	g	D	D	D	D	D	D	D	16 924
33421	Telephone apparatus manufacturing	-	8	8	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	-	8	8	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	-	25	11	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	-	25	11	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	-	13	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	8	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	43	7	1 067	41 386	641	1 345	19 086	92 529	44 989	134 352	3 878
3391	Medical equipment and supplies manufacturing	2	18	4	805	32 973	466	951	14 773	63 209	36 264	96 283	D
33911	Medical equipment and supplies manufacturing	2	18	4	805	32 973	466	951	14 773	63 209	36 264	96 283	D
STRAFFORD													
31-33	Manufacturing	1	155	51	6 338	240 205	4 145	7 156	118 070	1 497 778	494 275	1 961 919	23 884
326	Plastics and rubber products manufacturing	1	10	4	925	27 912	730	1 219	18 617	133 774	74 966	112 035	2 055
3261	Plastics product manufacturing ..	-	5	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	27	5	720	20 850	564	778	11 102	55 456	34 832	90 717	2 261
333	Machinery manufacturing	-	17	6	g	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing	-	6	2	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing	-	5	1	g	D	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	-	12	8	967	46 056	511	986	18 178	95 439	59 222	155 718	2 328
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	5	4	f	D	D	D	D	D	D	D	D
SULLIVAN													
31-33	Manufacturing	1	114	32	3 977	132 949	3 111	5 898	95 300	388 028	229 612	616 396	42 831
332	Fabricated metal product manufacturing	1	33	7	1 381	52 713	1 218	2 462	42 571	134 321	60 650	188 107	5 821
3329	Other fabricated metal product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
332994	Small arms manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	3	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336321	Vehicular lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: 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. For geographical definitions, see Appendix D.

Table 4. Industry Statistics for Places: 2002

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
AMHERST													
31-33	Manufacturing	3	43	12	741	27 616	519	1 047	14 843	57 625	37 225	94 432	2 658
BEDFORD													
31-33	Manufacturing	-	21	8	979	29 557	759	1 689	19 038	94 266	130 342	227 492	9 399
336	Transportation equipment manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
CLAREMONT													
31-33	Manufacturing	2	46	14	1 048	37 952	739	1 466	23 007	116 003	72 299	193 565	25 384
CONCORD													
31-33	Manufacturing	-	56	23	2 284	87 983	1 519	2 927	48 208	198 504	195 697	394 467	21 685
334	Computer and electronic product manufacturing	-	6	3	f	D	D	D	D	D	D	D	892
DERRY													
31-33	Manufacturing	2	33	11	1 246	51 029	652	1 300	20 082	108 166	66 101	174 196	D
334	Computer and electronic product manufacturing	3	4	3	533	24 147	263	546	8 736	47 018	32 641	79 148	D
DOVER													
31-33	Manufacturing	1	50	17	2 648	114 773	1 462	2 590	48 801	212 650	228 064	408 720	13 354
333	Machinery manufacturing	-	7	3	g	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing	-	3	2	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	-	5	3	521	21 165	218	469	5 001	26 103	20 373	47 738	D
EXETER													
31-33	Manufacturing	-	21	6	1 054	38 181	643	1 351	20 123	134 867	78 993	215 327	9 018
FRANKLIN													
31-33	Manufacturing	-	17	7	1 144	36 872	880	1 729	22 471	109 126	91 873	202 626	5 818
332	Fabricated metal product manufacturing	-	5	2	f	D	D	D	D	D	D	D	D
HAMPTON													
31-33	Manufacturing	5	18	8	1 086	40 493	698	1 334	24 771	90 193	64 320	159 589	3 171
314	Textile product mills	9	1	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	9	1	1	f	D	D	D	D	D	D	D	D
31499	All other textile product mills ...	9	1	1	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	9	1	1	f	D	D	D	D	D	D	D	D
HANOVER													
31-33	Manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
HOOKSETT													
31-33	Manufacturing	-	21	6	1 093	51 301	969	1 578	43 277	64 525	120 236	188 612	6 839
336	Transportation equipment manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
HUDSON													
31-33	Manufacturing	1	76	34	3 141	140 682	2 004	4 057	72 952	344 552	332 107	669 593	18 106
332	Fabricated metal product manufacturing	2	26	13	515	20 743	353	765	13 099	45 468	19 449	64 744	1 536
334	Computer and electronic product manufacturing	—	16	8	1 258	53 963	847	1 618	31 570	115 161	182 661	286 619	4 600
3344	Semiconductor and other electronic component manufacturing	—	15	7	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	—	15	7	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
KEENE													
31-33	Manufacturing	1	49	16	3 246	136 161	2 006	3 916	64 251	327 376	187 656	509 773	18 550
332	Fabricated metal product manufacturing	3	9	3	817	27 068	625	1 197	21 893	63 625	20 297	85 654	3 600
3329	Other fabricated metal product manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	6	5	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing	—	2	1	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	—	2	1	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	—	8	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing	—	3	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	—	3	1	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	—	3	1	f	D	D	D	D	D	D	D	D
LACONIA													
31-33	Manufacturing	1	52	17	1 566	55 137	1 113	2 285	33 994	124 313	78 686	204 916	5 600
332	Fabricated metal product manufacturing	—	17	7	536	17 394	297	548	7 510	31 673	19 067	50 878	528
LEBANON													
31-33	Manufacturing	—	40	20	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	9	7	f	D	D	D	D	D	D	D	D
LONDONDERRY													
31-33	Manufacturing	—	60	26	2 316	99 052	1 562	3 103	49 075	'335 298	301 489	'636 226	13 447
333	Machinery manufacturing	—	7	4	531	28 163	357	604	9 541	29 664	45 859	74 307	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
MANCHESTER													
31-33	Manufacturing	-	156	55	7 117	274 595	4 737	9 574	139 260	672 677	592 862	1 266 988	41 011
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills and schiffli machine embroidery	-	1	1	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	-	10	6	858	33 529	612	1 322	18 433	82 564	61 991	143 941	8 713
3261	Plastics product manufacturing ..	-	10	6	858	33 529	612	1 322	18 433	82 564	61 991	143 941	8 713
32619	Other plastics product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	23	8	706	21 152	566	1 085	13 827	43 990	30 114	73 313	4 696
334	Computer and electronic product manufacturing	-	26	16	1 502	59 120	769	1 513	22 633	147 373	124 901	269 933	5 311
3344	Semiconductor and other electronic component manufacturing	-	11	8	848	27 809	450	932	13 968	52 385	71 876	118 204	1 032
33441	Semiconductor and other electronic component manufacturing	-	11	8	848	27 809	450	932	13 968	52 385	71 876	118 204	1 032
335	Electrical equipment, appliance, and component manufacturing	-	6	5	1 125	41 589	873	1 653	28 189	143 949	157 173	301 735	5 931
3351	Electric lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	25	3	940	36 731	675	1 453	21 812	101 351	70 113	169 881	3 510
3399	Other miscellaneous manufacturing	-	15	1	570	23 365	429	964	14 695	70 465	55 191	124 074	D
33999	All other miscellaneous manufacturing	-	5	1	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
MERRIMACK													
31-33	Manufacturing	-	37	18	2 350	113 525	1 322	2 606	50 292	410 530	286 007	698 243	59 306
333	Machinery manufacturing	-	7	4	628	33 727	225	459	8 399	82 084	74 934	156 862	3 431
MILFORD													
31-33	Manufacturing	-	45	17	2 714	108 604	1 855	3 373	66 053	219 379	170 682	393 249	15 127
331	Primary metal manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	-	8	7	816	30 873	564	1 244	16 465	77 801	51 122	128 701	2 262
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	4	4	665	23 514	500	1 100	13 996	65 586	39 889	104 689	1 726
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	4	4	665	23 514	500	1 100	13 996	65 586	39 889	104 689	1 726

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
NASHUA													
31-33	Manufacturing	-	142	52	9 905	569 655	3 991	8 465	134 292	1 118 000	902 352	1 949 609	78 912
333	Machinery manufacturing	7	13	7	539	26 522	260	501	9 441	50 547	34 443	86 654	2 070
334	Computer and electronic product manufacturing	-	31	16	7 445	476 797	2 254	5 027	80 661	906 957	756 716	1 585 242	67 976
3344	Semiconductor and other electronic component manufacturing	-	18	10	2 519	107 931	1 444	3 327	44 791	84 146	283 776	367 261	D
33441	Semiconductor and other electronic component manufacturing	-	18	10	2 519	107 931	1 444	3 327	44 791	84 146	283 776	367 261	D
334412	Bare printed circuit board manufacturing	-	5	4	2 180	94 117	1 260	2 949	38 969	61 479	266 103	327 427	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	3	1	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	3	1	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	-	1	1	h	D	D	D	D	D	D	D	D
PORTSMOUTH													
31-33	Manufacturing	1	54	21	2 509	110 305	1 435	2 833	46 118	263 321	248 331	525 952	15 263
325	Chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	2	7	6	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	2	5	5	573	28 981	230	460	6 400	27 968	70 458	111 306	2 234
33421	Telephone apparatus manufacturing	2	5	5	573	28 981	230	460	6 400	27 968	70 458	111 306	2 234
334210	Telephone apparatus manufacturing	2	5	5	573	28 981	230	460	6 400	27 968	70 458	111 306	2 234
ROCHESTER													
31-33	Manufacturing	3	38	13	1 266	41 123	901	1 485	20 945	117 841	96 608	219 031	3 732
332	Fabricated metal product manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
SALEM													
31-33	Manufacturing	1	69	25	1 828	86 608	1 007	1 955	34 912	454 861	333 711	812 595	17 384
334	Computer and electronic product manufacturing	-	17	8	578	35 457	220	406	9 549	340 090	249 634	614 478	11 858
SOMERSWORTH													
31-33	Manufacturing	-	25	12	1 240	45 395	902	1 725	25 225	115 177	78 979	192 035	4 060
BALANCE OF BELKNAP COUNTY													
31-33	Manufacturing	1	69	20	1 777	63 287	1 145	2 295	32 121	143 366	139 702	279 054	11 414
334	Computer and electronic product manufacturing	1	8	6	f	D	D	D	D	D	D	D	4 305
BALANCE OF CARROLL COUNTY													
31-33	Manufacturing	1	85	16	1 053	34 025	776	1 532	21 710	65 028	70 918	136 258	3 441
BALANCE OF CHESHIRE COUNTY													
31-33	Manufacturing	2	121	35	3 169	108 754	2 346	4 595	63 163	227 959	200 475	417 237	14 289
321	Wood product manufacturing	2	20	8	607	16 622	519	957	12 602	31 820	46 217	77 792	1 724
3219	Other wood product manufacturing	1	16	6	527	14 397	447	792	10 707	27 116	37 435	64 278	1 224
326	Plastics and rubber products manufacturing	-	9	5	f	D	D	D	D	D	D	D	D
BALANCE OF COOS COUNTY													
31-33	Manufacturing	-	27	9	1 116	37 934	926	1 808	28 240	95 723	126 705	226 098	9 096

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BALANCE OF GRAFTON COUNTY													
31-33	Manufacturing	1	92	27	2 571	69 464	1 909	3 550	48 212	169 405	188 028	362 536	9 230
321	Wood product manufacturing	2	20	10	529	15 619	442	892	11 679	29 387	44 222	73 646	1 841
335	Electrical equipment, appliance, and component manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
BALANCE OF HILLSBOROUGH COUNTY													
31-33	Manufacturing	1	115	33	4 121	165 006	2 758	5 629	92 862	451 495	241 753	693 622	26 556
323	Printing and related support activities	-	10	4	570	17 628	352	688	10 997	62 590	23 394	85 018	1 663
3231	Printing and related support activities	-	10	4	570	17 628	352	688	10 997	62 590	23 394	85 018	1 663
32311	Printing	-	9	4	f	D	D	D	D	D	D	D	1 663
332	Fabricated metal product manufacturing	-	23	8	1 011	38 846	793	1 557	26 118	87 107	32 445	121 960	4 930
3329	Other fabricated metal product manufacturing	-	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33511	Electric lamp bulb and part manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb and part manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	8	11	4	539	21 220	332	559	9 806	59 024	24 296	83 481	2 412
BALANCE OF MERRIMACK COUNTY													
31-33	Manufacturing	1	126	46	3 348	120 651	2 402	4 929	68 660	271 959	224 293	496 782	13 668
321	Wood product manufacturing	3	23	11	588	16 998	474	998	12 129	36 822	43 509	80 479	2 451
BALANCE OF ROCKINGHAM COUNTY													
31-33	Manufacturing	2	222	48	5 894	238 373	4 192	8 428	135 766	730 004	391 007	1 118 113	26 533
326	Plastics and rubber products manufacturing	-	13	7	1 304	40 441	1 022	2 139	27 205	77 743	28 998	106 478	4 608
3261	Plastics product manufacturing ..	-	13	7	1 304	40 441	1 022	2 139	27 205	77 743	28 998	106 478	4 608
32619	Other plastics product manufacturing	-	8	3	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	8	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	65	12	1 144	50 562	836	1 688	32 433	110 581	81 352	193 749	3 063
336	Transportation equipment manufacturing	-	7	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	18	2	584	22 805	303	643	9 135	41 828	33 506	72 166	2 492
3391	Medical equipment and supplies manufacturing	2	8	1	534	21 394	275	591	8 500	39 318	31 960	68 098	2 467
33911	Medical equipment and supplies manufacturing	2	8	1	534	21 394	275	591	8 500	39 318	31 960	68 098	2 467
BALANCE OF STRAFFORD COUNTY													
31-33	Manufacturing	2	37	9	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
BALANCE OF SULLIVAN COUNTY													
31-33	Manufacturing	-	68	18	2 929	94 997	2 372	4 432	72 293	272 025	157 313	422 831	17 447
332	Fabricated metal product manufacturing	1	18	5	1 192	45 639	1 074	2 177	37 728	118 567	54 030	166 201	D
3329	Other fabricated metal product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
332994	Small arms manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336321	Vehicular lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1-10 to 19 percent; 2-20 to 29 percent; 3-30 to 39 percent; 4-40 to 49 percent; 5-50 to 59 percent; 6-60 to 69 percent; 7-70 to 79 percent; 8-80 to 89 percent; 9-90 percent or more.

²Includes establishments with payroll at any time during the year.

³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: 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. For geographical definitions, see Appendix D.

Table 5. Detailed Statistics for the State: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
NEW HAMPSHIRE	
Companies ¹	N
All establishments ²	2 213
Establishments with 1 to 19 employees	1 500
Establishments with 20 to 99 employees	523
Establishments with 100 employees or more	190
All employees ³	83 545
Total compensation	\$1,000.. 4 260 890
Annual payroll	\$1,000.. 3 421 148
Total fringe benefits	\$1,000.. 839 742
Production workers, average for year	53 985
Production workers on March 12	54 845
Production workers on May 12	54 409
Production workers on August 12	53 662
Production workers on November 12	52 860
Production worker hours	1,000.. 106 263
Production worker wages	\$1,000.. 1 693 399
Total cost of materials	\$1,000.. 6 758 241
Materials, parts, containers, packaging, etc., used	\$1,000.. 5 857 472
Resales	\$1,000.. 475 215
Purchased fuels	\$1,000.. 81 616
Purchased electricity	\$1,000.. 162 212
Contract work	\$1,000.. 181 726
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 826 131
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 179 514
Total value of shipments	\$1,000.. '15 235 144
Value of resales	\$1,000.. 596 974
Value added	\$1,000.. '8 527 926
Total inventories, beginning of year	\$1,000.. '2 145 355
Finished goods inventories	\$1,000.. '634 039
Work-in-process inventories	\$1,000.. '620 923
Materials and supplies inventories	\$1,000.. '890 393
Total inventories, end of year	\$1,000.. '2 094 649
Finished goods inventories	\$1,000.. '628 056
Work-in-process inventories	\$1,000.. '679 023
Materials and supplies inventories	\$1,000.. '787 570
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 7 065 387
Total capital expenditures (new and used)	\$1,000.. 539 919
Buildings and other structures (new and used)	\$1,000.. 84 232
Machinery and equipment (new and used)	\$1,000.. 455 687
Automobiles, trucks, etc., for highway use	\$1,000.. 15 395
Computers and peripheral data processing equipment	\$1,000.. 46 838
All other expenditures for machinery and equipment	\$1,000.. 393 454
Total retirements	\$1,000.. 419 440
Gross value of depreciable assets at end of year	\$1,000.. 7 185 866
Depreciation charges during year	\$1,000.. 573 179
Total rental payments	\$1,000.. 187 945
Buildings and other structures	\$1,000.. 115 666
Machinery and equipment	\$1,000.. 72 279

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: 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. For geographical definitions, see Appendix D.

Appendix A.

Explanation of Terms

COMPANY

A company or “enterprise” is comprised of all the establishments that operate under the ownership or control of a single organization. A company may be a business, service, or membership organization; consist of one or several establishments; and operate at one or several locations. It includes all subsidiary organizations, all establishments that are majority-owned by the company or any subsidiary, and all the establishments that can be directed or managed by the company or any subsidiary.

A company may have one or many establishments. Examples include product and service sales offices (retail and wholesale), industrial production plants, processing or assembly operations, mines or well sites, and support operations (such as an administrative office, warehouse, customer service center, or regional headquarters). Each establishment should receive, complete, and return a separate census form.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

Establishment

An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Data in this sector includes those establishments where manufacturing is performed. A separate report was required for each manufacturing establishment (plant) with one employee or more that was in operation at any time during the year.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the “Operational Status” section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating the federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees’ social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers’ social security contributions or other nonpayroll labor costs, such as employees’ pension plans, group insurance premiums, and workers’ compensation.

The ASM provides estimates of employers’ total supplemental labor costs (those required by federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

TOTAL FRINGE BENEFITS

This item is the employer's costs for social security tax, unemployment tax, workmen's compensation insurance, state disability insurance pension plans, stock purchase plans, union-negotiated benefits, life insurance premiums, and insurance premiums on hospital and medical plans for employees.

Fringe benefits are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation, whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

NUMBER OF EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period that included the 12th of the months specified on the report form. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses.

These individuals consist of all full-time and part-time employees who are on the payrolls of establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November.

The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November

Production Workers

The "production workers" number includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All Other Employees

The "other employees" covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

PRODUCTION-WORKER HOURS

This item covers all hours worked or paid for at the manufacturing plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the establishment.

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.

QUANTITY OF ELECTRICITY PURCHASED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. In addition, information is 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.

TOTAL VALUE OF SHIPMENTS

Includes the received or receivable net selling values, "Free on Board" (FOB) plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all

items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment's value of product shipments:

1. reported contract work — receipts for work or services that a plant performed for others on their materials;
2. value of resales — sales of products bought and sold without further manufacture, processing, or assembly; and
3. other miscellaneous receipts — includes repair work, installation, sales of scrap, etc.

Industry primary product value of shipments represents one of three components of value of shipments. These components are:

1. primary product value of shipments;
2. secondary product value of shipments; and
3. total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio.

Duplication in cost of materials and value of shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to the paper manufacturing group of industries.

Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries that included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Specialization and coverage ratio

An establishment is classified in a particular industry, if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.).

Specialization and coverage ratio have been developed to measure the relationship of primary product shipments to the data on shipments for a particular industry.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

VALUE ADDED

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

TOTAL END-OF-YEAR INVENTORIES

This item is comprised of:

- a. Finished products
- b. Work-in-process
- c. Materials, supplies, fuels, etc.

Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Therefore, 1982 through 2002 data for inventories are not strictly comparable to prior-year data.

In addition, total beginning-of-year inventories is the sum of several different types of inventory valuations.

Inventory valuations include:

1. Subject to Last-in, first-out (LIFO) costing (including LIFO reserve and value)
2. Not subject to LIFO costing
3. Valuation method not reported, and
4. Amount subject to LIFO reported without associated reserve and value.

GROSS VALUE OF DEPRECIABLE/DEPLETABLE ASSETS AT BEGINNING OF YEAR

Gross value of depreciable/depletable assets includes all fixed depreciable/depletable assets contained in accounting records of establishments. The values shown (gross book value) represent the actual cost of assets at the time they were acquired. Included are all costs incurred in making the assets usable (such as transportation and installation)

Gross value of depreciable/depletable assets includes:

1. Buildings and other structures (new and used).
2. Machinery and equipment (new and used), including automobiles, trucks, etc. for highway use and computers and peripheral data processing equipment.
3. Retirements.

Excluded are nondepreciable capital assets including inventories and intangible assets.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year rather than the final value of equipment put in place and buildings completed during the year.

In addition, respondents were requested to make certain that assets at the beginning of the year plus capital expenditures, less retirements, equaled assets at the end of the year.

CAPITAL EXPENDITURES FOR NEW AND USED PLANT AND EQUIPMENT

Represents the total new and used capital expenditures reported by establishments in operation and any known plants under construction.

These data include expenditures for:

1. Permanent additions and major alterations to manufacturing and mining establishments.
2. New and used machinery and equipment used for replacement and additions to plant capacity, if they are of the type for which depreciation, depletion, or (for mining establishments) Office of Minerals Exploration accounts are ordinarily maintained. In addition, for mining establishments, these data include expenditures made during the year for development and exploration of mineral properties. For manufacturing establishments, these data are broken down into three types.
 - a. Automobiles, trucks, etc. for highway use. These include vehicles acquired under a lease-purchase agreement and excludes vehicles leased or normally designed to transport materials, property, or equipment on mining, construction, petroleum development, and similar projects. These vehicles are of such size or weight as to be normally restricted by state laws or regulations from operating on public highways. It also excludes purchases of vehicles that are purchased by a company for highway use.
 - b. Computers and peripheral data processing equipment. This item includes all purchases of computers and related equipment.
 - c. All other expenditures for machinery and equipment excluding automobiles and computer equipment.

Capital expenditures include work done by contract, as well as by the establishment's own workforce.

These data exclude expenditures for land and mineral rights and cost of maintenance and repairs charged as current operating expenses.

RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

RENTAL PAYMENTS

Total rental payments are collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments.

However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

DEPRECIATION CHARGES FOR FIXED ASSETS

This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

Appendix B.

NAICS Codes, Titles, and Descriptions

SECTOR 31-33 MANUFACTURING

The Manufacturing sector 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. Conversely, there are activities that are sometimes considered manufacturing, but which for NAICS are classified in another sector (i.e., not classified as manufacturing).

They include: (1) Logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; (2) The beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; (3) The construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; (4) 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 (5) 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).

311 FOOD MANUFACTURING

Industries in the Food Manufacturing subsector transform livestock and agricultural products into products for intermediate or final consumption. The industry groups are distinguished by the raw materials (generally of animal or vegetable origin) processed into food products.

The food products manufactured in these establishments are typically sold to wholesalers or retailers for distribution to consumers, but establishments primarily engaged in retailing bakery and candy products made on the premises not for immediate consumption are included.

Establishments primarily engaged in manufacturing beverages are classified in Subsector 312, Beverage and Tobacco Product Manufacturing.

3111 ANIMAL FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing food and feed for animals from ingredients, such as grains, oilseed mill products, and meat products.

31111 ANIMAL FOOD MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing food and feed for animals from ingredients, such as grains, oilseed mill products, and meat products.

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.

3112 GRAIN AND OILSEED MILLING

This industry group comprises establishments primarily engaged in one or more of the following:

-
1. Milling flour or meal from grains or vegetables;
 2. Preparing flour mixes or doughs from flour milled in the same establishment;
 3. Milling, cleaning, and polishing rice; and
 4. Manufacturing malt from barley, rye, or other grains.

31121 FLOUR MILLING AND MALT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Milling flour or meal from grains or vegetables
2. Preparing flour mixes or doughs from flour milled in the same establishment
3. Milling, cleaning, and polishing rice; and
4. Manufacturing malt from barley, rye, or other grains.

311211 FLOUR MILLING

This U.S. industry comprises establishments primarily engaged in the following:

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 of the following:

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.

31122 STARCH AND VEGETABLE FATS AND OILS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Wet milling corn and vegetables;
2. Crushing oilseeds and tree nuts;
3. Refining and/or blending vegetable oils;
4. Manufacturing shortening and margarine; and
5. Blending purchased animal fats with vegetable fats.

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:

1. Manufacturing 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.

31123 BREAKFAST CEREAL MANUFACTURING

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

311230 BREAKFAST CEREAL MANUFACTURING

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

3113 SUGAR AND CONFECTIONERY PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one of the following:

1. Process agricultural inputs, such as sugarcane, beet, and cacao, to give rise to a new product (sugar or chocolate), and
2. Those that begin with sugar and chocolate and process these further.

31131 SUGAR MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing raw sugar, liquid sugar, and refined sugar from sugarcane, raw cane sugar and sugarbeets.

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.

31132 CHOCOLATE AND CONFECTIONERY MANUFACTURING FROM CACAO BEANS

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

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.

31133 CONFECTIONERY MANUFACTURING FROM PURCHASED CHOCOLATE

This 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.

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.

31134 NONCHOCOLATE CONFECTIONERY MANUFACTURING

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

311340 NONCHOCOLATE CONFECTIONERY MANUFACTURING

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

3114 FRUIT AND VEGETABLE PRESERVING AND SPECIALTY FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in the following:

1. Those that freeze food and
2. Those that use preservation processes, such as pickling, canning, and dehydrating.

Both types begin their production process with inputs of vegetable or animal origin.

31141 FROZEN FOOD MANUFACTURING

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

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.

31142 FRUIT AND VEGETABLE CANNING, PICKLING, AND DRYING

This industry comprises establishments primarily engaged in manufacturing canned, pickled, and dried fruits, vegetables, and specialty foods. Establishments in this industry may package the dried or dehydrated ingredients they make with other purchased ingredients. Examples of products made by these establishments are canned juices; canned baby foods; canned soups (except seafood); canned dry beans; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste, pickles, relishes, jams and jellies, dried soup mixes and bullions, and sauerkraut.

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 of the following:

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.

3115 DAIRY PRODUCT MANUFACTURING

This industry group comprises establishments that manufacture dairy products from raw milk, processed milk, and dairy substitutes.

31151 DAIRY PRODUCT (EXCEPT FROZEN) MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Manufacturing dairy products (except frozen) from raw milk and/or processed milk products;
2. Manufacturing dairy substitutes (except frozen) from soybeans and other nondairy substances; and
3. Manufacturing dry, condensed, concentrated, and evaporated dairy and dairy substitute products.

311511 FLUID MILK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. Manufacturing processed milk products, such as pasteurized milk or cream and sour cream and/or
2. Manufacturing 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:

1. manufacturing cheese products (except cottage cheese) from raw milk and/or processed milk products and/or
2. manufacturing 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.

31152 ICE CREAM AND FROZEN DESSERT MANUFACTURING

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

3116 ANIMAL SLAUGHTERING AND PROCESSING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Slaughtering animals;
2. Preparing processed meats and meat byproducts; and
3. Rendering and/or refining animal fat, bones, and meat scraps.

This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased carcasses.

31161 ANIMAL SLAUGHTERING AND PROCESSING

This industry comprises establishments primarily engaged in one or more of the following:

1. Slaughtering animals;
2. Preparing processed meats and meat byproducts; and
3. Rendering and/or refining animal fat, bones, and meat scraps.

This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased carcasses.

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:

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

3117 SEAFOOD PRODUCT PREPARATION AND PACKAGING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Canning seafood (including soup);
2. Smoking, salting, and drying seafood;
3. Eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
4. Shucking and packing fresh shellfish;
5. Processing marine fats and oils; and
6. Freezing 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 group.

31171 SEAFOOD PRODUCT PREPARATION AND PACKAGING

This industry comprises establishments primarily engaged in one or more of the following:

1. Canning seafood (including soup);
2. Smoking, salting, and drying seafood;
3. Eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
4. Shucking and packing fresh shellfish;
5. Processing marine fats and oils; and
6. Freezing 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.

311711 SEAFOOD CANNING

This U.S. industry comprises establishments primarily engaged in one of the following:

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:

1. Eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
2. Shucking and packing fresh shellfish;

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3. Manufacturing frozen seafood; and
 4. Processing fresh and frozen marine fats and oils.

3118 BAKERIES AND TORTILLA MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Bread and bakery product manufacturing;
2. Cookie, cracker, and pasta manufacturing; and
3. Tortilla manufacturing.

31181 BREAD AND BAKERY PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing fresh and frozen bread and other bakery products.

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.

31182 COOKIE, CRACKER, AND PASTA MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

1. Manufacturing cookies and crackers;
2. Preparing flour and dough mixes and dough from flour ground elsewhere; and
3. Manufacturing dry pasta.

The establishments in this industry may package the dry pasta they manufacture with other ingredients.

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.

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.

31183 TORTILLA MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing tortillas.

311830 TORTILLA MANUFACTURING

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

3119 OTHER FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing food (except animal food; grain and oilseed milling; sugar and confectionery products; preserved fruit, vegetable, and specialty foods; dairy products; meat products; seafood products; and bakeries and tortillas). The industry group includes industries with different productive processes, such as snack food manufacturing; coffee and tea manufacturing; concentrate, syrup, condiment, and spice manufacturing; and, in general, an entire range of other miscellaneous food product manufacturing.

31191 SNACK FOOD MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Salting, roasting, drying, cooking, or canning nuts;
2. Processing grains or seeds into snacks;
3. Manufacturing peanut butter; and
4. Manufacturing potato chips, corn chips, popped popcorn, pretzels (except soft), pork rinds, and similar snacks.

311911 ROASTED NUTS AND PEANUT BUTTER MANUFACTURING

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

1. Salting, roasting, drying, cooking, or canning nuts;
2. Processing grains or seeds into snacks; and
3. Manufacturing 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).

31192 COFFEE AND TEA MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

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

311920 COFFEE AND TEA MANUFACTURING

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

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

31193 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

This 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.

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.

31194 SEASONING AND DRESSING MANUFACTURING

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

1. Manufacturing dressings and sauces, such as mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravies);
2. Manufacturing spices, table salt, seasoning, and flavoring extracts (except coffee and meat), and natural food colorings; and
3. Manufacturing dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

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 of the following:

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

31199 ALL OTHER FOOD MANUFACTURING

This 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; bakeries and tortillas; snack foods; coffee and tea; flavoring syrups and concentrates; seasonings; and dressings). 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.

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.

312 BEVERAGE AND TOBACCO PRODUCT MANUFACTURING

Industries in the Beverage and Tobacco Product Manufacturing subsector manufacture beverages and tobacco products. The industry group, Beverage Manufacturing, includes three types of establishments:

1. Those that manufacture nonalcoholic beverages;
2. Those that manufacture alcoholic beverages through the fermentation process; and
3. Those that produce distilled alcoholic beverages.

Ice manufacturing, while not a beverage, is included with nonalcoholic beverage manufacturing because it uses the same production process as water purification.

In the case of activities related to the manufacture of beverages, the structure follows the defined productive processes. Brandy, a distilled beverage, was not placed under distillery product manufacturing, but rather under the NAICS class for winery product manufacturing since the productive process used in the manufacturing of alcoholic grape-based beverages produces both wines (fermented beverage) and brandies (distilled beverage).

The industry group, Tobacco Manufacturing, includes two types of establishments:

1. Those engaged in redrying and stemming tobacco and,
2. Those that manufacture tobacco products, such as cigarettes and cigars.

3121 BEVERAGE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing soft drinks; ice; bottled water; breweries; wineries; and/or distilleries.

31211 SOFT DRINK AND ICE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Manufacturing soft drinks;

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2. Manufacturing ice; and
 3. Purifying and bottling water.

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.

31212 BREWERIES

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

312120 BREWERIES

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

31213 WINERIES

This industry comprises establishments primarily engaged in one or more of the following:

1. Growing grapes and manufacturing wine and brandies;
2. Manufacturing wine and brandies from grapes and other fruits grown elsewhere; and
3. Blending wines and brandies.

312130 WINERIES

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

1. Growing grapes and manufacturing wine and brandies;
2. Manufacturing wine and brandies from grapes and other fruits grown elsewhere; and
3. Blending wines and brandies.

31214 DISTILLERIES

This industry comprises establishments primarily engaged in one or more of the following:

1. Distilling potable liquors (except brandies);
2. Distilling and blending liquors; and
3. Blending and mixing liquors and other ingredients.

312140 DISTILLERIES

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

1. Distilling potable liquors (except brandies);
2. Distilling and blending liquors; and
3. Blending and mixing liquors and other ingredients.

3122 TOBACCO MANUFACTURING

This industry group comprises establishments primarily engaged in the stemming and redrying of tobacco, and in the manufacturing of tobacco products.

31221 TOBACCO STEMMING AND REDRYING

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

312210 TOBACCO STEMMING AND REDRYING

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

31222 TOBACCO PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and reconstituted 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).

313 TEXTILE MILLS

Industries in the Textile Mills subsector group establishments that transform a basic fiber (natural or synthetic) into a product, such as yarn or fabric, that is further manufactured into usable items, such as apparel, sheets towels, and textile bags for individual or industrial consumption. The further manufacturing may be performed in the same establishment and classified in this subsector, or it may be performed at a separate establishment and be classified elsewhere in manufacturing.

The main processes in this subsector include preparation and spinning of fiber, knitting or weaving of fabric, and the finishing of the textile. The NAICS structure follows and captures this process flow. Major industries in this flow, such as preparation of fibers, weaving of fabric, knitting of fabric, and fiber and fabric finishing, are uniquely identified. Texturizing, throwing, twisting, and winding of yarn contains aspects of both fiber preparation and fiber finishing and is classified with preparation of fibers rather than with finishing of fiber.

NAICS separates the manufacturing of primary textiles and the manufacturing of textile products (except apparel) when the textile product is produced from purchased primary textiles, such as fabric. The manufacturing of textile products (except apparel) from purchased fabric is classified in Subsector 314, Textile Product Mills, and apparel from purchased fabric is classified in Subsector 315, Apparel Manufacturing.

Excluded from this subsector are establishments that weave or knit fabric and make garments. These establishments are included in Subsector 315, Apparel Manufacturing.

3131 FIBER, YARN, AND THREAD MILLS

This NAICS Industry Group include establishments classified in NAICS Industry 31311, Fiber, Yarn, and Thread Mills.

31311 FIBER, YARN, AND THREAD MILLS

This industry comprises establishments primarily engaged in one or more of the following:

1. spinning yarn

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2. manufacturing thread of any fiber
 3. texturizing, throwing, twisting, and winding purchased yarn or manmade fiber filaments
 4. producing hemp yarn and further processing into rope or bags.

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.

3132 FABRIC MILLS

This industry group comprises establishments primarily engaged in one or more of the following:

1. Broadwoven fabric mills;
2. Narrow fabric mills and schiffli machine embroidery;
3. Nonwoven fabric mills; and
4. Knit fabric mills.

31321 BROADWOVEN FABRIC MILLS

This 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.

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.

31322 NARROW FABRIC MILLS AND SCHIFFLI MACHINE EMBROIDERY

This industry comprises establishments primarily engaged in one or more of the following:

1. weaving or braiding narrow fabrics
2. manufacturing Schiffli machine embroideries
3. making fabric-covered elastic yarn and thread.

313221 NARROW FABRIC MILLS

This U.S. industry comprises establishments primarily engaged in:

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.

31323 NONWOVEN FABRIC MILLS

This 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.

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.

31324 KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in one of the following:

1. knitting weft (i.e., circular) and warp (i.e., flat) fabric
2. knitting and finishing weft and warp fabric
3. manufacturing lace
4. manufacturing, dyeing, and 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).

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 of the following:

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

3133 TEXTILE AND FABRIC FINISHING AND FABRIC COATING MILLS

This industry group comprises establishments primarily engaged in one or more of the following:

1. Textile and fabric finishing mills and
2. Fabric coating mills.

31331 TEXTILE AND FABRIC FINISHING MILLS

This industry comprises:

1. establishments primarily engaged in finishing of textiles, fabrics, and apparel
2. establishments of converters who buy fabric goods in the grey, have them finished on contract, and sell at wholesale. Finishing operations include:

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- a. bleaching
 - b. dyeing
 - c. printing (e.g., roller, screen, flock, plisse)
 - d. stonewashing
 - e. other mechanical finishing (preshrinking, shrinking, sponging, calendering, mercerizing, and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock).

313311 BROADWOVEN FABRIC FINISHING MILLS

This U.S. industry comprises:

1. Establishments primarily engaged in finishing broadwoven fabrics
2. Establishments of 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:

1. Establishments primarily engaged in dyeing, bleaching, printing, and other finishing of textiles, apparel, and fabrics (except broadwoven)
2. Establishments of 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, calendering, mercerizing and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock.

31332 FABRIC COATING MILLS

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

313320 FABRIC COATING MILLS

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

314 TEXTILE PRODUCT MILLS

Industries in the Textile Product Mills subsector group establishments that make textile products (except apparel). With a few exceptions, processes used in these industries are generally cut and sew (i.e., purchasing fabric and cutting and sewing to make nonapparel textile products, such as sheets and towels).

3141 TEXTILE FURNISHINGS MILLS

This industry group comprises establishments primarily engaged in one or more of the following:

1. Carpet and rug mills and
2. Curtain and linen mills.

31411 CARPET AND RUG MILLS

This industry comprises establishments primarily engaged in one or more of the following:

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1. Manufacturing 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.

314110 CARPET AND RUG MILLS

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing 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.

31412 CURTAIN AND LINEN MILLS

This industry comprises establishments primarily engaged in manufacturing household textile products, such as curtains, draperies, linens, bedspreads, sheets, tablecloths, towels, and shower curtains, from purchased materials.

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.

3149 OTHER TEXTILE PRODUCT MILLS

This industry group comprises establishments primarily engaged in making textile products, (except carpets and rugs, curtains and draperies, and other household textile products) from purchased materials.

31491 TEXTILE BAG AND CANVAS MILLS

This industry comprises establishments primarily engaged in manufacturing textile bags, awnings, tents, and related products from purchased textile fabrics.

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.

31499 ALL OTHER TEXTILE PRODUCT MILLS

This industry comprises establishments primarily engaged in manufacturing nonapparel textile products (except carpet, rugs, curtains, linens, bags, and canvas products) from purchased materials.

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.

315 APPAREL MANUFACTURING

Industries in the Apparel Manufacturing subsector group establishments with two distinct manufacturing processes:

1. Cut and sew (i.e., purchasing fabric and cutting and sewing to make a garment), and
2. The manufacture of garments in establishments that first knit fabric and then cut and sew the fabric into a garment.

The Apparel Manufacturing subsector includes a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients are all included. Knitting, when done alone, is classified in the Textile Mills subsector, but when knitting is combined with the production of complete garments, the activity is classified in Apparel Manufacturing.

3151 APPAREL KNITTING MILLS

This industry group comprises establishments primarily engaged in knitting apparel or knitting fabric and then manufacturing apparel. This industry group includes jobbers performing entrepreneurial functions involved in knitting apparel and accessories. Knitting fabric, without manufacturing apparel, is classified in Subsector 313, Textile Mills.

31511 HOSIERY AND SOCK MILLS

This industry comprises establishments primarily engaged in knitting or knitting and finishing hosiery and socks.

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).

31519 OTHER APPAREL KNITTING MILLS

This industry comprises establishments primarily engaged in one of the following:

1. knitting underwear, outerwear, and/or nightwear;

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2. knitting fabric and manufacturing underwear, outerwear, and/or nightwear; or
 3. knitting, manufacturing, and finishing knit underwear, outerwear, and/or nightwear.

315191 OUTERWEAR KNITTING MILLS

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

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 of the following:

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.

3152 CUT AND SEW APPAREL MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing cut and sew apparel from woven fabric or purchased knit fabric. Included in this industry group is a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients. Establishments weaving or knitting fabric, without manufacturing apparel, are classified in Subsector 313, Textile Mills.

31521 CUT AND SEW APPAREL CONTRACTORS

This industry comprises establishments commonly referred to as contractors primarily engaged in one of the following:

1. cutting materials owned by others for apparel and accessories and/or
2. sewing materials owned by others for apparel and accessories.

315211 MEN'S AND BOYS' CUT AND SEW APPAREL CONTRACTORS

This U.S. industry comprises establishments (commonly referred to as contractors) primarily engaged in:

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 of the following:

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.

31522 MEN'S AND BOYS' CUT AND SEW APPAREL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew apparel from purchased fabric. Men's and boys' 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.

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.

31523 WOMEN'S AND GIRLS' CUT AND SEW APPAREL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing women's and girls' apparel from purchased fabric. Women's and girls' 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.

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.

31529 OTHER CUT AND SEW APPAREL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except men's, boys', women's, and girls' apparel). This industry includes establishments manufacturing apparel, such as fur apparel, leather apparel, infants' apparel, costumes, and clerical vestments.

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.

3159 APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing apparel accessories and other apparel (except apparel knitting mills, apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, infants' cut and sew apparel, fur and leather apparel, and all other cut and sew apparel). This industry group includes jobbers performing entrepreneurial functions involved in manufacturing apparel accessories.

31599 APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing apparel and accessories (except apparel knitting mills, cut and sew apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, and other cut and sew apparel). Jobbers, who

perform entrepreneurial functions involved in apparel accessories manufacture, including buying raw materials, designing and preparing samples, arranging for apparel accessories to be made from their materials, and marketing finished apparel accessories, are included. Examples of products made by these establishments are belts, caps, gloves (except medical, sporting, safety), hats, and neckties.

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.

316 LEATHER AND ALLIED PRODUCT MANUFACTURING

Establishments in the Leather and Allied Product Manufacturing subsector transform hides into leather by tanning or curing and fabricating the leather into products for final consumption. It also includes the manufacture of similar products from other materials, including products (except apparel) made from "leather substitutes," such as rubber, plastics, or textiles. Rubber footwear, textile luggage, and plastics purses or wallets are examples of "leather substitute" products included in this group. The products made from leather substitutes are included in this subsector because they are made in similar ways leather products are made (e.g., luggage). They are made in the same establishments, so it is not practical to separate them.

The inclusion of leather making in this subsector is partly because leather tanning is a relatively small industry that has few close neighbors as a production process, partly because leather is an input to some of the other products classified in this subsector and partly for historical reasons.

3161 LEATHER AND HIDE TANNING AND FINISHING

This industry group comprises establishments primarily engaged in one or more of the following:

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.

31611 LEATHER AND HIDE TANNING AND FINISHING

This industry comprises establishments primarily engaged in one or more of the following:

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.

316110 LEATHER AND HIDE TANNING AND FINISHING

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

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.

3162 FOOTWEAR MANUFACTURING

This industry group 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.

31621 FOOTWEAR MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing footwear (except orthopedic extension footwear).

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)).

3169 OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing leather products (except footwear and apparel) from purchased leather or leather substitutes (e.g., fabric, plastics).

31699 OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing leather products (except footwear and apparel) from purchased leather or leather substitutes (e.g., fabric, plastics).

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).

321 WOOD PRODUCT MANUFACTURING

Industries in the Wood Product Manufacturing subsector manufacture wood products, such as lumber, plywood, veneers, wood containers, wood flooring, wood trusses, manufactured homes (i.e., mobile home), and prefabricated wood buildings. The production processes of the Wood Product Manufacturing subsector include sawing, planing, shaping, laminating, and assembling of wood products starting from logs that are cut into bolts, or lumber that then may be further cut, or shaped by lathes or other shaping tools. The lumber or other transformed wood shapes may also be subsequently planed or smoothed, and assembled into finished products, such as wood containers. The Wood Product Manufacturing subsector includes establishments that make wood products from logs and bolts that are sawed and shaped, and establishments that purchase sawed lumber and make wood products. With the exception of sawmills and wood preservation establishments, the establishments are grouped into industries mainly based on the specific products manufactured.

3211 SAWMILLS AND WOOD PRESERVATION

This industry group comprises establishments whose primary production process begins with logs or bolts that are transformed into boards, dimension lumber, beams, timbers, poles, ties, shingles, shakes, siding, and wood chips. Establishments that cut and treat round wood and/or treat wood products made in other establishments to prevent rotting by impregnation with creosote or other chemical compounds are also included in this industry group.

32111 SAWMILLS AND WOOD PRESERVATION

This industry comprises establishments primarily engaged in one or more of the following:

1. sawing dimension lumber, boards, beams, timber, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts;
2. sawing round wood poles, pilings, and posts and treating them with preservatives; and
3. treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives to prevent decay and to protect against fire and insects.

Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

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:

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.

3212 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing veneer and/or plywood;
2. Manufacturing engineered wood members; and
3. Manufacturing reconstituted wood products.

This industry includes manufacturing plywood from veneer made in the same establishment or from veneer made in other establishments, and manufacturing plywood faced with nonwood materials, such as plastics or metal.

32121 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing veneer and/or plywood;
2. manufacturing engineered wood members; and
3. manufacturing reconstituted wood products.

This industry includes manufacturing plywood from veneer made in the same establishment or from veneer made in other establishments, and manufacturing plywood faced with nonwood materials, such as plastics or metal.

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.

3219 OTHER WOOD PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and wood preservation facilities; and establishments manufacturing veneer, plywood, or engineered wood products).

32191 MILLWORK

This industry comprises establishments primarily engaged in manufacturing hardwood and softwood cut stock and dimension stock (i.e., shapes); wood windows and wood doors; and other millwork including wood flooring. Dimension stock or cut stock is defined as lumber and worked wood products cut or shaped to specialized sizes. These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

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:

1. manufacturing dimension lumber from purchased lumber;
2. manufacturing 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).

32192 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.

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.

32199 ALL OTHER WOOD PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and wood preservation facilities; and establishments manufacturing veneer, plywood, engineered wood products, millwork, wood containers, or pallets).

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).

322 PAPER MANUFACTURING

Industries in the Paper Manufacturing subsector make pulp, paper, or converted paper products. The manufacturing of these products is grouped together because they constitute a series of vertically connected processes. More than one is often carried out in a single establishment. There are essentially three activities. The manufacturing of pulp involves separating the cellulose fibers from other impurities in wood or used paper. The manufacturing of paper involves matting these fibers into a sheet. Converted paper products are made from paper and other materials by various cutting and shaping techniques and includes coating and laminating activities.

The Paper Manufacturing subsector is subdivided into two industry groups, the first for the manufacturing of pulp and paper and the second for the manufacturing of converted paper products. Paper making is treated as the core activity of the subsector. Therefore, any establishment that makes paper (including paperboard), either alone or in combination with pulp manufacturing or paper converting, is classified as a paper or paperboard mill. Establishments that make pulp without making paper are classified as pulp mills. Pulp mills, paper mills and paperboard mills comprise the first industry group.

Establishments that make products from purchased paper and other materials make up the second industry group, Converted Paper Product Manufacturing. This general activity is then subdivided based, for the most part, on process distinctions. Paperboard container manufacturing uses corrugating, cutting, and shaping machinery to form paperboard into containers. Paper bag and coated and treated paper manufacturing establishments cut and coat paper and foil. Stationery product manufacturing establishments make a variety of paper products used for writing, filing, and similar applications. Other converted paper product manufacturing includes, in particular, the conversion of sanitary paper stock into such things as tissue paper and disposable diapers.

An important process used in the Paper Bag and Coated and Treated Paper Manufacturing industry is lamination, often combined with coating. Lamination and coating makes a composite material with improved properties of strength, impermeability, and so on. The laminated materials may be paper, metal foil, or plastics film. While paper is often one of the components, it is not always. Lamination of plastics film to plastics film is classified in the NAICS Subsector 326, Plastics and Rubber Products Manufacturing, because establishments that do this often first make the film. The same situation holds with respect to bags. The manufacturing of bags from plastics only, whether or not laminated, is classified in Subsector 326, Plastics and Rubber Products Manufacturing, but all other bag manufacturing is classified in this subsector.

Excluded from this subsector are photosensitive papers. These papers are chemically treated and are classified in Industry 32599, All Other Chemical Product and Preparation Manufacturing.

3221 PULP, PAPER, AND PAPERBOARD MILLS

This industry group comprises establishments primarily engaged in manufacturing pulp, paper, or paperboard.

32211 PULP MILLS

This 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.

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.

32212 PAPER MILLS

This industry comprises establishments primarily engaged in manufacturing paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may convert the paper they make. The activity of making paper classifies an establishment into this industry regardless of the output.

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.

32213 PAPERBOARD MILLS

This 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.

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.

3222 CONVERTED PAPER PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in converting paper or paperboard without manufacturing paper or paperboard.

32221 PAPERBOARD CONTAINER MANUFACTURING

This industry comprises establishments primarily engaged in converting paperboard into containers without manufacturing paperboard. These establishments use corrugating, cutting, and shaping machinery to form paperboard into containers. Products made by these establishments include boxes; corrugated sheets, pads, and pallets; paper dishes; and fiber drums and reels.

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).

32222 PAPER BAG AND COATED AND TREATED PAPER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. cutting and coating paper and paperboard;
2. cutting and laminating paper and paperboard and other flexible materials (except plastics film to plastics film);
3. manufacturing bags or multiwall bags or sacks of paper, metal foil, coated paper, or laminates or coated combinations of paper and foil with plastics film;
4. manufacturing laminated aluminum and other converted metal foils from purchased foils; and
5. surface coating paper or paperboard.

322221 COATED AND LAMINATED PACKAGING PAPER AND PLASTICS FILM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

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 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.

32223 STATIONERY PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in converting paper or paperboard into products used for writing, filing, art work, and similar applications.

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).

32229 OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

1. converting paper and paperboard into products (except containers, bags, coated and treated paper and paperboard, and stationery products), or
2. converting pulp into pulp products, such as disposable diapers, or molded pulp egg cartons, food trays, and dishes.

Processes used include laminating or lining purchased paper or paperboard.

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.

323 PRINTING AND RELATED SUPPORT ACTIVITIES

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, labels, business cards, stationery, business forms, and other materials, and perform support activities, such as data imaging, platemaking services, and bookbinding. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book, or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations.

Processes used in printing include a variety of methods used to transfer an image from a plate, screen, film, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly “drive” the printing mechanism to create the image and new electrostatic and other types of equipment (digital or nonimpact printing).

In contrast to many other classification systems that locate publishing of printed materials in manufacturing, NAICS classifies the publishing of printed products in Subsector 511, Publishing Industries (except Internet). Though printing and publishing are often carried out by the same enterprise (a newspaper, for example), it is less and less the case that these distinct activities are carried out in the same establishment. When publishing and printing are done in the same establishment, the establishment is classified in Sector 51, Information, in the appropriate NAICS industry even if the receipts for printing exceed those for publishing.

This subsector includes printing on clothing because the production process for that activity is printing, not clothing manufacturing. For instance, the printing of T-shirts is included in this subsector. In contrast, printing on fabric (or grey goods) is not included. This activity is part of the process of finishing the fabric and is included in the NAICS Textile Mills subsector in Industry 31331, Textile and Fabric Finishing Mills.

3231 PRINTING AND RELATED SUPPORT ACTIVITIES

This industry group comprises establishments primarily engaged in one or more of the following:

1. Printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods) and/or
2. Performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

32311 PRINTING

This industry comprises establishments primarily engaged in printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods). The printing processes employed include, but are not limited to, lithographic, gravure, screen, flexographic, digital, and letterpress. Establishments in this industry do not manufacture the stock that they print but may perform postprinting activities, such as folding, cutting, or laminating the materials they print, and mailing.

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.

32312 SUPPORT ACTIVITIES FOR PRINTING

This industry comprises establishments primarily engaged in performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

323121 TRADEBINDING AND RELATED WORK

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

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:

1. prepress services, such as imagesetting or typesetting, for printers and
2. preparing film or plates for printing purposes.

324 PETROLEUM AND COAL PRODUCTS MANUFACTURING

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

In addition, this subsector includes establishments that primarily further process refined petroleum and coal products and produce products, such as asphalt coatings and petroleum lubricating oils. However, establishments that manufacture petrochemicals from refined petroleum are classified in Industry 32511, Petrochemical Manufacturing.

3241 PETROLEUM AND COAL PRODUCTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Petroleum refineries manufacturing;
2. Asphalt paving, roofing, and saturated materials manufacturing; and/or
3. Other petroleum and coal products manufacturing.

32411 PETROLEUM REFINERIES

This industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities:

1. fractionation;
2. straight distillation of crude oil; and
3. cracking.

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 activities:

1. fractionation;
2. straight distillation of crude oil; and
3. cracking.

32412 ASPHALT PAVING, ROOFING, AND SATURATED MATERIALS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or
2. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

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:

1. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and
2. manufacturing asphalt and tar and roofing cements and coatings from purchased asphaltic materials.

32419 OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing and saturated materials) from refined petroleum or coal products made in coke ovens not integrated with a steel mill.

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.

325 CHEMICAL MANUFACTURING

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

This subsector does not include all industries transforming raw materials by a chemical process. It is common for some chemical processing to occur during mining operations. These beneficiating operations, such as copper concentrating, are classified in Sector 21, Mining. Furthermore, the refining of crude petroleum is included in Subsector 324, Petroleum and Coal Products Manufacturing. In addition, the manufacturing of aluminum oxide is included in Subsector 331, Primary Metal Manufacturing; and beverage distilleries are classified in Subsector 312, Beverage and Tobacco Product Manufacturing. As in the case of these two activities, the grouping of industries into subsectors may take into account the association of the activities performed with other activities in the subsector.

3251 BASIC CHEMICAL MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing chemicals using basic processes, such as thermal cracking and distillation. Chemicals manufactured in this industry group are usually separate chemical elements or separate chemically-defined compounds.

32511 PETROCHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

1. manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or
2. manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325110 PETROCHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one of the following:

1. manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or
2. manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

32512 INDUSTRIAL GAS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

325120 INDUSTRIAL GAS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

32513 SYNTHETIC DYE AND PIGMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing synthetic organic and inorganic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

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).

32518 OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases and synthetic dyes and pigments).

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).

32519 OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing basic organic chemicals (except petrochemicals, industrial gases, and synthetic dyes and pigments).

325191 GUM AND WOOD CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) distilling wood or gum into products, such as tall oil and wood distillates, and (2) manufacturing 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 (1) distilling coal tars and/or (2) manufacturing 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).

3252 RESIN, SYNTHETIC RUBBER, AND ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Resin and synthetic rubber manufacturing and
2. Artificial and synthetic fibers and filaments manufacturing.

32521 RESIN AND SYNTHETIC RUBBER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers and mixing and blending resins on a custom basis;
2. manufacturing noncustomized synthetic resins; and
3. manufacturing synthetic rubber.

325211 PLASTICS MATERIAL AND RESIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in

1. manufacturing resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or
2. manufacturing noncustomized synthetic resins.

325212 SYNTHETIC RUBBER MANUFACTURING

This U.S. industry consists of establishments primarily engaged in manufacturing synthetic rubber.

32522 ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

1. manufacturing cellulosic (i.e., rayon and acetate) and noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or
2. manufacturing and texturing cellulosic and noncellulosic fibers and filaments.

325221 CELLULOSIC ORGANIC FIBER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one of the following:

1. manufacturing 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 consists of establishments primarily engaged in one of the following:

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1. manufacturing 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.

3253 PESTICIDE, FERTILIZER, AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This industry group includes establishments classified in one of the following:

1. Fertilizer manufacturing and/or
2. Pesticide and other agricultural chemical manufacturing.

32531 FERTILIZER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing nitrogenous or phosphatic fertilizer materials;
2. manufacturing fertilizers from sewage or animal waste;
3. manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and
4. mixing ingredients made elsewhere into fertilizers.

325311 NITROGENOUS FERTILIZER MANUFACTURING

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

1. manufacturing nitrogenous fertilizer materials and mixing ingredients into fertilizers;
2. manufacturing fertilizers from sewage or animal waste; and
3. manufacturing nitrogenous materials and mixing them into fertilizers.

325312 PHOSPHATIC FERTILIZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing phosphatic fertilizer materials or
2. manufacturing 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.

32532 PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except 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).

3254 PHARMACEUTICAL AND MEDICINE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing biological and medicinal products;
2. Processing (i.e., grading, grinding, and milling) botanical drugs and herbs;

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3. Isolating active medicinal principals from botanical drugs and herbs; and
 4. Manufacturing pharmaceutical products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

32541 PHARMACEUTICAL AND MEDICINE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing biological and medicinal products;
2. processing (i.e., grading, grinding, and milling) botanical drugs and herbs;
3. isolating active medicinal principals from botanical drugs and herbs; and
4. manufacturing pharmaceutical products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325411 MEDICINAL AND BOTANICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one of the following:

1. manufacturing 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).

3255 PAINT, COATING, AND ADHESIVE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Paint and coating manufacturing and/or
2. Adhesive manufacturing.

32551 PAINT AND COATING MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

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

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2. manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

325510 PAINT AND COATING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

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. manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

32552 ADHESIVE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325520 ADHESIVE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

3256 SOAP, CLEANING COMPOUND, AND TOILET PREPARATION MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Soap and cleaning compound manufacturing and/or
2. Toilet preparation manufacturing.

32561 SOAP AND CLEANING COMPOUND MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and packaging soap and other cleaning compounds, surface active agents, and textile and leather finishing agents used to reduce tension or speed the drying process.

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 group comprises establishments primarily engaged in one or more of the following:

1. manufacturing bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or
2. manufacturing textiles and leather finishing agents used to reduce tension or speed the drying process.

32562 TOILET PREPARATION MANUFACTURING

This 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.

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.

3259 OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

32591 PRINTING INK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

325910 PRINTING INK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

32592 EXPLOSIVES MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 EXPLOSIVES MANUFACTURING

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

32599 ALL OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, and synthetic rubber; cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; and soaps, cleaning compounds, and toilet preparations; printing inks; and explosives).

325991 CUSTOM COMPOUNDING OF PURCHASED RESINS

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

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).

326 PLASTICS AND RUBBER PRODUCTS MANUFACTURING

Industries in the Plastics and Rubber Products Manufacturing subsector make goods by processing plastics materials and raw rubber. The core technology employed by establishments in this subsector is that of plastics or rubber product production. Plastics and rubber are combined in the same subsector because plastics are increasingly being used as a substitute for rubber; however the subsector is generally restricted to the production of products made of just one material, either solely plastics or rubber.

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hoses and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

3261 PLASTICS PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

32611 PLASTICS PACKAGING MATERIALS AND UNLAMINATED FILM AND SHEET MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. converting plastics resins into unsupported plastics film and sheet and/or
2. forming, coating or laminating plastics film and sheet into plastics bags.

326111 PLASTICS BAG MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one of the following:

1. converting plastics resins into plastics bags or

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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).

32612 PLASTICS PIPE, PIPE FITTING, AND UNLAMINATED PROFILE SHAPE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics pipes and pipe fittings, and plastics profile shapes such as rod, tube, and sausage casings.

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.

32613 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING

This 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.

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.

32614 POLYSTYRENE FOAM PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

326140 POLYSTYRENE FOAM PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

32615 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

326150 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

32616 PLASTICS BOTTLE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 PLASTICS BOTTLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics bottles.

32619 OTHER PLASTICS PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing resilient floor covering and other plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, and bottles).

326191 PLASTICS PLUMBING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiberglass plumbing fixtures. Examples of products made by these establishments are plastics or fiberglass 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).

3262 RUBBER PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in processing natural, and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

32621 TIRE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

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.

32622 RUBBER AND PLASTICS HOSES AND BELTING MANUFACTURING

This 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.

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.

32629 OTHER RUBBER PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing rubber products (except tires, hoses, and belting) from natural and synthetic rubber.

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.

327 NONMETALLIC MINERAL PRODUCT MANUFACTURING

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications. The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

Excluded from the Nonmetallic Mineral Product Manufacturing subsector are establishments that primarily beneficiate mined nonmetallic minerals. Beneficiation is the process whereby the extracted material is reduced to particles that can be separated into mineral and waste, the former suitable for further processing or direct use. Beneficiation establishments are included in Sector 21, Mining.

3271 CLAY PRODUCT AND REFRACTORY MANUFACTURING

This industry group comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials and/or shaping, molding, baking, burning, or hardening clay refractories, non-clay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

32711 POTTERY, CERAMICS, AND PLUMBING FIXTURE MANUFACTURING

This industry comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials.

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.

32712 CLAY BUILDING MATERIAL AND REFRACTORIES MANUFACTURING

This industry comprises establishments primarily engaged in shaping, molding, baking, burning, or hardening clay refractories, nonclay refractories, ceramic tile, structural clay tile, brick, and other structural clay building 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.

3272 GLASS AND GLASS PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

32721 GLASS AND GLASS PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

327211 FLAT GLASS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing flat glass by melting silica sand or cullet; or
2. manufacturing 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.

3273 CEMENT AND CONCRETE PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Cement manufacturing;
2. Ready-mix concrete manufacturing;
3. Concrete pipe, brick, and block manufacturing; and/or
4. Other concrete product manufacturing.

32731 CEMENT MANUFACTURING

This 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.

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.

32732 READY-MIX CONCRETE MANUFACTURING

This industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

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.

32733 CONCRETE PIPE, BRICK, AND BLOCK MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block.

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.

32739 OTHER CONCRETE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 OTHER CONCRETE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

3274 LIME AND GYPSUM PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells and/or gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work.

32741 LIME MANUFACTURING

This 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.

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.

32742 GYPSUM PRODUCT MANUFACTURING

This 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.

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.

3279 OTHER NONMETALLIC MINERAL PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 ABRASIVE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

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.

32799 ALL OTHER NONMETALLIC MINERAL PRODUCT MANUFACTURING

This 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; and 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).

331 PRIMARY METAL MANUFACTURING

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Direct reduction of iron ore;
2. Manufacturing pig iron in molten or solid form;
3. Converting pig iron into steel;
4. Manufacturing ferroalloys;
5. Making steel;
6. Making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, and wire); and
7. Making steel and forming pipe and tube.

33111 IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. direct reduction of iron ore;
2. manufacturing pig iron in molten or solid form;
3. converting pig iron into steel;
4. manufacturing ferroalloys;
5. making steel;
6. making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, and wire); and
7. making steel and forming pipe and tube.

331111 IRON AND STEEL MILLS

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

1. direct reduction of iron ore;

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2. manufacturing pig iron in molten or solid form;
 3. converting pig iron into steel;
 4. making steel;
 5. making steel and manufacturing 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.

3312 STEEL PRODUCT MANUFACTURING FROM PURCHASED STEEL

This industry group comprises establishments primarily engaged in manufacturing iron and steel tube and pipe; drawing steel wire; and rolling or drawing shapes from purchased iron or steel.

33121 IRON AND STEEL PIPE AND TUBE MANUFACTURING FROM PURCHASED STEEL

This industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

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.

33122 ROLLING AND DRAWING OF PURCHASED STEEL

This industry comprises establishments primarily engaged in rolling and/or drawing steel shapes, such as plate, sheet, strip, rod, and bar, from purchased 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.

3313 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Refining alumina;
2. Making (i.e., the primary production) aluminum from alumina;
3. Recovering aluminum from scrap or dross;
4. Alloying purchased aluminum; and
5. Manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, and wire).

33131 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry comprises establishments primarily engaged in one or more of the following:

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1. refining alumina;
 2. making (i.e., the primary production) aluminum from alumina;
 3. recovering aluminum from scrap or dross;
 4. alloying purchased aluminum; and
 5. manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, and wire).

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:

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:

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. manufacturing alloys, powder, paste, or flake from purchased aluminum.

331315 ALUMINUM SHEET, PLATE, AND FOIL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

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:

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:

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.

3314 NONFERROUS METAL (EXCEPT ALUMINUM) PRODUCTION AND PROCESSING

This industry group comprises establishments primarily engaged in one of the following:

1. Nonferrous metal (except aluminum) smelting and refining;
2. Copper rolling, drawing, extruding, and alloying; and/or
3. Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying.

33141 NONFERROUS METAL (EXCEPT ALUMINUM) SMELTING AND REFINING

This industry comprises establishments primarily engaged in:

1. smelting ores into nonferrous metals and/or
2. the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

331411 PRIMARY SMELTING AND REFINING OF COPPER

This U.S. industry comprises establishments primarily engaged in one of the following:

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:

1. making (primary production) nonferrous metals by smelting ore and/or
2. the primary refining of nonferrous metals by electrolytic methods or other processes.

33142 COPPER ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This industry comprises establishments primarily engaged in one or more of the following:

1. recovering copper or copper alloys from scraps;
2. alloying purchased copper;
3. rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, wire) from purchased copper; and
4. recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, wire).

331421 COPPER 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 (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:

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.

33149 NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This industry comprises establishments primarily engaged in one or more of the following:

1. recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap;
2. alloying purchased nonferrous metals (except copper and aluminum);
3. rolling, drawing, and extruding shapes from purchased nonferrous metals (except copper and aluminum); and
4. recovering nonferrous metals from scrap (except copper and aluminum) and rolling, drawing, or extruding shapes in integrated facilities.

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.

3315 FOUNDRIES

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping, threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

Establishments in this industry group make castings from purchased metals or in integrated secondary smelting and casting facilities. When the production of primary metals is combined with making castings, the establishment is classified in 331 with the primary metal being made.

33151 FERROUS METAL FOUNDRIES

This industry comprises establishments primarily engaged in pouring molten iron and steel into molds of a desired shape to make castings. Establishments in this industry purchase iron and steel made in other establishments.

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.

33152 NONFERROUS METAL FOUNDRIES

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals 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.

332 FABRICATED METAL PRODUCT MANUFACTURING

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The NAICS structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

3321 FORGING AND STAMPING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing forgings from purchased metals;
2. Manufacturing metal custom roll forming products;
3. Manufacturing metal stamped and spun products (except automotive, cans, and coins); and
4. Manufacturing powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and assembling) a specific manufactured product are classified in the industry of the finished product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

33211 FORGING AND STAMPING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing forgings from purchased metals;
2. manufacturing metal custom roll forming products;
3. manufacturing metal stamped and spun products (except automotive, cans, and coins); and
4. manufacturing powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and assembling) a specific manufactured product are classified in the industry of the finished product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

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.

3322 CUTLERY AND HANDTOOL MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing nonprecious and precious plated metal cutlery and flatware;
2. Manufacturing nonpowered hand and edge tools;
3. Manufacturing nonpowered handsaws;
4. Manufacturing saw blades, all types (including those for sawing machines); and

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5. Manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

33221 CUTLERY AND HANDTOOL MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing nonprecious and precious plated metal cutlery and flatware;
2. manufacturing nonpowered hand and edge tools;
3. manufacturing nonpowered handsaws;
4. manufacturing saw blades, all types (including those for sawing machines); and
5. manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

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:

1. manufacturing nonpowered handsaws and/or
2. manufacturing 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).

3323 ARCHITECTURAL AND STRUCTURAL METALS MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing one or more of the following:

1. Plate work and fabricated structural product manufacturing and
2. Ornamental and architectural metal products manufacturing.

33231 PLATE WORK AND FABRICATED STRUCTURAL PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following:

1. prefabricated metal buildings, panels and sections;
2. structural metal products; and
3. metal plate work products.

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.

33232 ORNAMENTAL AND ARCHITECTURAL METAL PRODUCTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following:

1. metal framed windows (i.e., typically using purchased glass) and metal doors;
2. sheet metal work; and
3. ornamental and architectural metal products.

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.

3324 BOILER, TANK, AND SHIPPING CONTAINER MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Power boiler and heat exchanger manufacturing;
2. Metal tank (heavy gauge) manufacturing; and
3. Metal can, box, and other metal container (light gauge) manufacturing.

33241 POWER BOILER AND HEAT EXCHANGER MANUFACTURING

This 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.

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.

33242 METAL TANK (HEAVY GAUGE) MANUFACTURING

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

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.

33243 METAL CAN, BOX, AND OTHER METAL CONTAINER (LIGHT GAUGE) MANUFACTURING

This industry comprises establishments primarily engaged in forming light gauge metal 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).

3325 HARDWARE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

33251 HARDWARE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

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).

3326 SPRING AND WIRE PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Manufacturing steel springs by forming, such as cutting, bending, and heat winding, metal rod or strip stock, and/or
2. Manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

33261 SPRING AND WIRE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in:

1. manufacturing steel springs by forming, such as cutting, bending, and heat winding, metal rod or strip stock, and/or
2. manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

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.

3327 MACHINE SHOPS; TURNED PRODUCT; AND SCREW, NUT, AND BOLT MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Machine shops and/or
2. Turned product and screw, nut, and bolt manufacturing.

33271 MACHINE SHOPS

This 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.

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.

33272 TURNED PRODUCT AND SCREW, NUT, AND BOLT MANUFACTURING

This industry comprises establishments primarily engaged in:

1. machining precision turned products or
2. manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners.

Included in this industry are establishments primarily engaged in manufacturing parts for machinery and equipment on a customized basis.

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.

3328 COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This industry group comprises establishments primarily engaged in one or more of the following:

1. Heat treating metals and metal products;
2. Enameling, lacquering, and varnishing metals and metal products;
3. Hot dip galvanizing metals and metal products;
4. 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);
5. Powder coating metals and metal products;
6. Electroplating, plating, anodizing, coloring, and finishing metals and metal products; and
7. Providing other metal surfacing services for the trade.

Included in this industry are establishments that coat engravings and heat treat metals and metal formed products fabricated elsewhere.

33281 COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This industry comprises establishments primarily engaged in one or more of the following:

1. heat treating metals and metal products;
2. enameling, lacquering, and varnishing metals and metal products;
3. hot dip galvanizing metals and metal products;
4. 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);
5. powder coating metals and metal products;
6. electroplating, plating, anodizing, coloring, and finishing metals and metal products; and
7. providing other metal surfacing services for the trade.

Included in this industry are establishments that coat engravings and heat treat metals and metal formed products fabricated elsewhere.

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:

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.

3329 OTHER FABRICATED METAL PRODUCT MANUFACTURING

This industry group 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, and nuts and bolts).

33291 METAL VALVE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves:

1. industrial valves;
2. fluid power valves and hose fittings;
3. plumbing fixture fittings and trim; and
4. other metal valves and pipe fittings.

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).

33299 ALL OTHER FABRICATED METAL PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

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).

333 MACHINERY MANUFACTURING

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special purpose machinery). Three industry groups consist of special purpose machinery--Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery

Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General Purpose Machinery Manufacturing.

3331 AGRICULTURE, CONSTRUCTION, AND MINING MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Agricultural implement manufacturing;
2. Construction machinery manufacturing; and
3. Mining and oil and gas field machinery manufacturing.

33311 AGRICULTURAL IMPLEMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

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.

33312 CONSTRUCTION MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 CONSTRUCTION MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

33313 MINING AND OIL AND GAS FIELD MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

333131 MINING MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, and rock drills and
2. manufacturing 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:

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1. manufacturing 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. manufacturing water well drilling machinery.

3332 INDUSTRIAL MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Sawmill and woodworking machinery manufacturing;
2. Plastics and rubber industry machinery manufacturing; and
3. Other industrial machinery manufacturing.

33321 SAWMILL AND WOODWORKING MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing sawmill and wood-working machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding 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.

33322 PLASTICS AND RUBBER INDUSTRY MACHINERY MANUFACTURING

This 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.

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.

33329 OTHER INDUSTRIAL MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

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, and ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, and 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).

3333 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and dry-cleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

33331 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and dry-cleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

333311 AUTOMATIC VENDING MACHINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing coin, token, currency, or magnetic card operated vending machines; and/or
2. manufacturing 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:

1. manufacturing 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).

3334 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

33341 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer 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:

1. manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or
2. manufacturing commercial and industrial refrigeration and freezer equipment.

3335 METALWORKING MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

33351 METALWORKING MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

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).

3336 ENGINE, TURBINE, AND POWER TRANSMISSION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive, gasoline, and aircraft).

33361 ENGINE, TURBINE, AND POWER TRANSMISSION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive, gasoline, and aircraft).

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).

3339 OTHER GENERAL PURPOSE MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Pump and compressor manufacturing;
2. Material handling equipment manufacturing; and
3. All other general purpose machinery manufacturing.

33391 PUMP AND COMPRESSOR MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general purpose air and gas compressors, nonagricultural spraying and dusting equipment, general purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

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.

33392 MATERIAL HANDLING EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

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.

33399 ALL OTHER GENERAL PURPOSE MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing general purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

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).

334 COMPUTER AND ELECTRONIC PRODUCT MANUFACTURING

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically-related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment, are brought together. As new activities emerge, they are less likely therefore, to cross the subsector boundaries of the classification.

3341 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following:

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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 comprise at least analog, control, and programming elements.

33411 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following:

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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 comprise at least analog, control, and programming elements.

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).

3342 COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Telephone apparatus manufacturing;
2. Radio and television broadcasting and wireless communications equipment manufacturing; and
3. Other communications equipment manufacturing.

33421 TELEPHONE APPARATUS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be standalone 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, LAN modems, multi-user modems, and other data communications equipment, such as bridges, routers, and gateways.

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.

33422 RADIO AND TELEVISION BROADCASTING AND WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING

This 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.

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.

33429 OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications 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).

3343 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This industry group 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.

33431 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This 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.

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.

3344 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

33441 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

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).

3345 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

33451 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

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).

3346 MANUFACTURING AND REPRODUCING MAGNETIC AND OPTICAL MEDIA

This industry group comprises establishments primarily engaged in:

1. Manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or
2. Mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

33461 MANUFACTURING AND REPRODUCING MAGNETIC AND OPTICAL MEDIA

This industry comprises establishments primarily engaged in:

1. manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or;
2. mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

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.

335 ELECTRICAL EQUIPMENT, APPLIANCE, AND COMPONENT MANUFACTURING

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric Lighting Equipment Manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household

Appliance Manufacturing establishments make both small and major electrical appliances and parts. Electrical Equipment Manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other Electrical Equipment and Component Manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 ELECTRIC LIGHTING EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Electric lamp bulb and part manufacturing and/or
2. Lighting fixture manufacturing.

33511 ELECTRIC LAMP BULB AND PART MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

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).

33512 LIGHTING FIXTURE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics), and lighting fixture components (except current-carrying wiring devices).

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) and nonelectric lighting equipment.

3352 HOUSEHOLD APPLIANCE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Small electrical appliance manufacturing and/or
2. Major appliance manufacturing.

33521 SMALL ELECTRICAL APPLIANCE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

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.

33522 MAJOR APPLIANCE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

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 non-electric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

3353 ELECTRICAL EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

33531 ELECTRICAL EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

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.

3359 OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 BATTERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

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.

33592 COMMUNICATION AND ENERGY WIRE AND CABLE MANUFACTURING

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

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.

33593 WIRING DEVICE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

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.

33599 ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and 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.

336 TRANSPORTATION EQUIPMENT MANUFACTURING

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 MOTOR VEHICLE MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Automobile and light duty motor vehicle manufacturing and/or
2. Heavy duty truck manufacturing.

33611 AUTOMOBILE AND LIGHT DUTY MOTOR VEHICLE MANUFACTURING

This industry comprises establishments primarily engaged in:

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1. manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or
 2. manufacturing chassis only.

336111 AUTOMOBILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing complete automobiles (i.e., body and chassis or unibody) or
2. manufacturing automobile chassis only.

336112 LIGHT TRUCK AND UTILITY VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or
2. manufacturing light truck and utility vehicle chassis only.

Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

33612 HEAVY DUTY TRUCK MANUFACTURING

This industry comprises establishments primarily engaged in:

1. manufacturing 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. manufacturing heavy duty truck chassis only.

336120 HEAVY DUTY TRUCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in:

1. manufacturing 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. manufacturing heavy duty truck chassis only.

3362 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Manufacturing motor vehicle bodies and cabs or
2. Manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies, and detachable trailer chassis.

The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

33621 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry comprises establishments primarily engaged in:

1. manufacturing motor vehicle bodies and cabs or
2. manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies, and detachable trailer chassis.

The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

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 group comprises establishments primarily engaged in:

1. manufacturing motor homes on purchased chassis and/or
2. manufacturing 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:

1. manufacturing travel trailers and campers designed to attach to motor vehicles;
2. manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and
3. manufacturing 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.

3363 MOTOR VEHICLE PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Motor vehicle gasoline engine and engine parts manufacturing;
2. Motor vehicle electrical and electronic equipment manufacturing;
3. Motor vehicle steering and suspension components (except spring) manufacturing;
4. Motor vehicle brake system manufacturing;
5. Motor vehicle transmission and power train parts manufacturing;
6. Motor vehicle seating and interior trim manufacturing;
7. Motor vehicle metal stamping; and/or
8. Other motor vehicle parts manufacturing.

33631 MOTOR VEHICLE GASOLINE ENGINE AND ENGINE PARTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle gasoline engines, and engine parts, whether or not for vehicular use.

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.

33632 MOTOR VEHICLE ELECTRICAL AND ELECTRONIC EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in:

1. manufacturing vehicular lighting and/or
2. manufacturing and/or rebuilding motor vehicle electrical and electronic equipment.

The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, and ships).

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.

33633 MOTOR VEHICLE STEERING AND SUSPENSION COMPONENTS (EXCEPT SPRING) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

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).

33634 MOTOR VEHICLE BRAKE SYSTEM MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

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.

33635 MOTOR VEHICLE TRANSMISSION AND POWER TRAIN PARTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

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.

33636 MOTOR VEHICLE SEATING AND INTERIOR TRIM MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

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.

33637 MOTOR VEHICLE METAL STAMPING

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

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.

33639 OTHER MOTOR VEHICLE PARTS MANUFACTURING

This 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, and motor vehicle stampings).

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).

3364 AEROSPACE PRODUCT AND PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing complete aircraft, missiles, or space vehicles;
2. Manufacturing aerospace engines, propulsion units, auxiliary equipment or parts;
3. Developing and making prototypes of aerospace products;
4. Aircraft conversion (i.e., major modifications to systems); and
5. Complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

33641 AEROSPACE PRODUCT AND PARTS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing complete aircraft, missiles, or space vehicles;
2. manufacturing aerospace engines, propulsion units, auxiliary equipment or parts;
3. developing and making prototypes of aerospace products;
4. aircraft conversion (i.e., major modifications to systems); and
5. complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336411 AIRCRAFT MANUFACTURING

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

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:

1. manufacturing 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:

1. manufacturing 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:

1. manufacturing 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:

1. manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or

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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:

1. manufacturing 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.

3365 RAILROAD ROLLING STOCK MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. Manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. Manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

33651 RAILROAD ROLLING STOCK MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336510 RAILROAD ROLLING STOCK MANUFACTURING

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

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

3366 SHIP AND BOAT BUILDING

This industry group comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). 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. Boats are defined as watercraft typically suitable or intended for personal 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.

33661 SHIP AND BOAT BUILDING

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). 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. Boats are defined as watercraft typically suitable or intended for personal 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.

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.

3369 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

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).

337 FURNITURE AND RELATED PRODUCT MANUFACTURING

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for

furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knockdown). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 HOUSEHOLD AND INSTITUTIONAL FURNITURE AND KITCHEN CABINET MANUFACTURING

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen and bedroom furniture and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

This 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.

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.

33712 HOUSEHOLD AND INSTITUTIONAL FURNITURE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., 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).

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.

3372 OFFICE FURNITURE (INCLUDING FIXTURES) MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

33721 OFFICE FURNITURE (INCLUDING FIXTURES) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

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.

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).

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).

3379 OTHER FURNITURE RELATED PRODUCT MANUFACTURING

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 MATTRESS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 MATTRESS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

33792 BLIND AND SHADE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 BLIND AND SHADE MANUFACTURING

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

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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.

339 MISCELLANEOUS MANUFACTURING

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

33911 MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

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 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.

3399 OTHER MISCELLANEOUS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Jewelry and silverware manufacturing;
2. Sporting and athletic goods manufacturing;
3. Doll, toy, and game manufacturing;
4. Office supplies (except paper) manufacturing;
5. Sign manufacturing; and/or
6. All other miscellaneous manufacturing.

33991 JEWELRY AND SILVERWARE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing, engraving, chasing, or etching jewelry;
2. manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases);
3. manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware;
4. manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases);
5. stamping coins;
6. manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing;
7. cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems;
8. recutting, repolishing, and setting gem stones; and

9. drilling, sawing, and peeling cultured and costume pearls.

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 group comprises establishments primarily engaged in one of the following:

1. manufacturing 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 group comprises establishments primarily engaged in one of the following:

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.

33992 SPORTING AND ATHLETIC GOODS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 SPORTING AND ATHLETIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

33993 DOLL, TOY, AND GAME MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

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).

33994 OFFICE SUPPLIES (EXCEPT PAPER) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

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.

33995 SIGN MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, and displays).

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).

33999 ALL OTHER MISCELLANEOUS MANUFACTURING

This 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), and signs).

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.

- 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 subsectors (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 drawn for the second survey year after a census. The most recent sample was drawn for the 1999 survey year based on the 1997 Economic Census — Manufacturing. This sample will be in place through the 2003 ASM.

In 1997, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the establishments in the 1997 manufacturing population were partitioned into two components for developing estimates within the ASM. The details of each are described below:

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 370,000 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 58,000 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 are mailed an ASM survey questionnaire for each year through 2003.

The 1999-2003 ASM sample design is similar to the one used since 1984. Companies in the 1997 Economic Census — Manufacturing with manufacturing shipments of at least \$500 million were defined as company certainties. 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 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. Across these arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1997 Economic Census — Manufacturing.

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 (1,755) and six-digit industry (473), a desired reliability constraint was specified. 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 the Census Bureau's 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) that permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

2. Nonmail stratum. The initial nonmail component of the survey was comprised of approximately 170,000 small, single-establishment companies that were tabulated as administrative records in the 1997 Economic Census — Manufacturing. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (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 which 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: 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. 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.
- 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

NEW HAMPSHIRE

All **Balance of Metropolitan Areas (MAs)** shown in 1997 have been converted to Balance of County records.

Amherst is now tabulated separately due to a population increase. It was included in a Balance of MA record in 1997.

Hanover is now tabulated separately due to a population increase. This change deletes territory from the Balance of Grafton County.

Hooksett is now tabulated separately due to a population increase. It was included in a Balance of MA record in 1997.

Windham is now tabulated separately due to a population increase. It was included in a Balance of MA record in 1997.

Balance of Grafton County no longer includes Hanover, which is tabulated separately due to a population increase.

Appendix E.

Metropolitan and Micropolitan Statistical Areas

BOSTON-WORCESTER-MANCHESTER, MA-NH COMBINED STATISTICAL AREA

Boston-Cambridge-Quincy, MA-NH Metropolitan Statistical Area

Boston-Quincy, MA Metropolitan Division

Norfolk County, MA

Plymouth County, MA

Suffolk County, MA

Cambridge-Newton-Framingham, MA Metropolitan Division

Middlesex County, MA

Essex County, MA Metropolitan Division

Essex County, MA

Rockingham County-Strafford County, NH Metropolitan Division

Rockingham County, NH

Strafford County, NH

Concord, NH Micropolitan Statistical Area

Merrimack County, NH

Laconia, NH Micropolitan Statistical Area

Belknap County, NH

Manchester-Nashua, NH Metropolitan Statistical Area

Hillsborough County, NH

Worcester, MA Metropolitan Statistical Area

Worcester County, MA

BERLIN, NH-VT MICROPOLITAN STATISTICAL AREA

Coos County, NH

Essex County, VT

KEENE, NH MICROPOLITAN STATISTICAL AREA

Cheshire County, NH

LEBANON, NH-VT MICROPOLITAN STATISTICAL AREA

Grafton County, NH

Orange County, VT

Windsor County, VT

