

# Minnesota: 2002

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## 2002 Economic Census

*Manufacturing*

Geographic Area Series



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Economics and Statistics Administration  
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## 2002 Economic Census

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#### Geographic Area Series



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# Introduction to the Economic Census

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## **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).

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## **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](http://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

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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](http://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](http://www.census.gov/econ/www/history.html).



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# Manufacturing

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## 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

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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](http://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.

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## 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](http://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.

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- 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.

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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](http://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](mailto: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

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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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA</b>													
31-33	Manufacturing .....	-	'8 139	'2 633	'351 884	'14 077 260	'233 396	'459 617	'7 598 620	'39 610 449	'40 960 059	'80 623 873	'2 815 001
311	Food manufacturing .....	1	728	279	46 479	1 520 650	35 346	72 000	1 010 050	6 105 400	9 728 854	15 792 194	348 836
3111	Animal food manufacturing .....	3	75	28	1 891	66 872	1 193	2 480	35 553	207 892	493 102	694 721	17 750
31111	Animal food manufacturing ....	3	75	28	1 891	66 872	1 193	2 480	35 553	207 892	493 102	694 721	17 750
311111	Dog and cat food manufacturing .....	-	8	2	200	6 488	167	339	4 806	19 769	33 084	52 393	D
311119	Other animal food manufacturing .....	3	67	26	1 691	60 384	1 026	2 141	30 747	188 123	460 018	642 328	D
3112	Grain and oilseed milling .....	2	48	29	2 915	130 590	2 301	4 613	94 077	968 239	1 885 170	2 822 209	56 947
31121	Flour milling and malt manufacturing .....	2	26	15	f	D	D	D	D	D	D	D	D
311211	Flour milling .....	-	15	11	560	22 557	459	982	17 098	88 440	333 534	420 907	D
311213	Malt manufacturing .....	6	5	4	226	11 546	166	267	7 314	40 649	116 822	156 862	12 367
31122	Starch and vegetable fats and oils manufacturing .....	3	17	12	1 153	48 339	855	1 819	31 832	489 311	1 260 656	1 743 582	24 694
311221	Wet corn milling .....	9	3	2	e	D	D	D	D	D	D	D	D
311222	Soybean processing .....	-	4	2	c	D	D	D	D	D	D	D	D
311225	Fats and oils refining and blending .....	2	9	8	670	28 322	486	1 065	18 828	264 083	720 022	978 021	19 249
31123	Breakfast cereal manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	40	11	2 556	92 923	2 173	4 364	75 126	476 288	508 608	976 865	D
31131	Sugar manufacturing .....	-	5	4	1 204	50 758	1 058	2 115	41 881	307 274	403 470	702 821	14 830
311313	Beet sugar manufacturing ...	-	4	4	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ...	1	19	2	e	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	1	19	2	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	15	5	1 040	32 071	890	1 809	27 421	137 157	87 322	224 558	7 741
311340	Nonchocolate confectionery manufacturing .....	-	15	5	1 040	32 071	890	1 809	27 421	137 157	87 322	224 558	7 741
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	46	32	5 396	166 515	4 443	8 969	116 146	622 434	644 704	1 265 014	54 384
31141	Frozen food manufacturing ....	2	17	15	2 736	83 317	2 011	3 752	47 014	269 919	254 567	524 547	40 426
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	5	5	836	22 749	768	1 574	19 779	99 222	116 100	215 334	D
311412	Frozen specialty food manufacturing .....	3	12	10	1 900	60 568	1 243	2 178	27 235	170 697	138 467	309 213	D
31142	Fruit and vegetable canning, pickling, and drying .....	1	29	17	2 660	83 198	2 432	5 217	69 132	352 515	390 137	740 467	13 958
311421	Fruit and vegetable canning ..	1	16	11	2 102	61 227	1 959	4 291	53 099	290 764	264 660	553 356	D
311422	Specialty canning .....	-	6	3	e	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	2	7	3	c	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	74	44	6 487	249 648	4 851	9 956	163 491	1 084 894	2 899 176	3 973 320	82 825
31151	Dairy product (except frozen) manufacturing .....	-	70	41	5 863	230 004	4 264	8 707	145 506	1 042 370	2 720 181	3 758 159	D
311511	Fluid milk manufacturing ....	-	34	15	1 631	65 304	1 016	2 181	38 296	261 001	682 432	945 441	12 807
311512	Creamery butter manufacturing .....	-	2	2	c	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	20	13	2 629	86 383	2 255	4 548	69 344	440 820	1 566 154	1 995 276	28 142
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	14	11	g	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	-	4	3	624	19 644	587	1 249	17 985	42 524	178 995	215 161	D
311520	Ice cream and frozen dessert manufacturing .....	-	4	3	624	19 644	587	1 249	17 985	42 524	178 995	215 161	D
3116	Animal slaughtering and processing .....	-	123	43	15 629	479 198	12 332	26 058	309 657	1 473 097	2 441 059	3 932 207	39 709
31161	Animal slaughtering and processing .....	-	123	43	15 629	479 198	12 332	26 058	309 657	1 473 097	2 441 059	3 932 207	39 709
311611	Animal (except poultry) slaughtering .....	-	76	15	7 256	257 337	5 541	11 889	156 229	939 726	1 677 991	2 628 348	19 263
311612	Meat processed from carcasses .....	5	18	8	1 843	56 753	1 418	2 944	36 665	123 319	165 623	295 937	4 941
311613	Rendering and meat byproduct processing .....	1	13	8	449	16 286	346	755	11 452	53 274	49 382	102 227	5 802
311615	Poultry processing .....	-	16	12	6 081	148 822	5 027	10 470	105 311	356 778	548 063	905 695	9 703
3117	Seafood product preparation and packaging .....	-	3	2	e	D	D	D	D	D	D	D	D
31171	Seafood product preparation and packaging .....	-	3	2	e	D	D	D	D	D	D	D	D
311712	Fresh and frozen seafood processing .....	-	3	2	e	D	D	D	D	D	D	D	D



**Table 1. Industry Statistics for the State: 2002—Con.**

[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	All establishments <sup>2</sup>			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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
311	Food manufacturing—Con.												
3118	Bakeries and tortilla manufacturing .....	1	228	55	i	D	D	D	D	D	D	24 284	
31181	Bread and bakery product manufacturing .....	1	206	49	5 543	147 722	3 338	6 059	89 400	449 293	267 687	715 985	19 596
311811	Retail bakeries .....	3	147	23	1 447	21 074	773	1 026	11 033	42 055	18 526	60 575	3 808
311812	Commercial bakeries .....	1	50	19	2 540	75 168	1 280	2 421	38 252	196 837	100 605	296 012	8 738
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	9	7	1 556	51 480	1 285	2 612	40 115	210 401	148 556	359 398	7 050
31182	Cookie, cracker, and pasta manufacturing .....	1	17	5	203	7 944	145	277	5 703	37 817	28 277	66 011	D
31183	Tortilla manufacturing .....	—	5	1	c	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	—	5	1	c	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	91	35	5 228	163 539	4 002	8 058	108 076	747 990	513 252	1 261 458	46 590
31191	Snack food manufacturing .....	—	12	6	1 272	40 857	769	1 412	19 461	111 751	114 162	225 885	9 407
311911	Roasted nuts and peanut butter manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing .....	7	7	1	c	D	D	D	D	D	D	D	D
311942	Spice and extract manufacturing .....	7	6	1	152	6 899	98	187	3 505	25 434	31 773	57 240	D
31199	All other food manufacturing .....	1	62	26	3 692	111 561	3 063	6 327	82 737	503 121	339 581	841 754	35 426
311991	Perishable prepared food manufacturing .....	1	18	10	807	22 686	652	1 275	17 664	72 966	56 587	129 518	5 490
311999	All other miscellaneous food manufacturing .....	—	44	16	2 885	88 875	2 411	5 052	65 073	430 155	282 994	712 236	29 936
312	Beverage and tobacco product manufacturing .....	—	34	10	1 270	52 477	771	1 536	21 749	111 869	500 523	613 091	15 563
3121	Beverage manufacturing .....	—	34	10	1 270	52 477	771	1 536	21 749	111 869	500 523	613 091	15 563
31211	Soft drink and ice manufacturing .....	—	18	5	958	40 812	563	1 164	15 904	83 605	445 800	529 440	10 125
312111	Soft drink manufacturing .....	—	7	4	869	38 203	511	1 076	14 913	73 312	444 202	517 545	9 724
31212	Breweries .....	5	7	4	c	D	D	D	D	D	D	D	5 010
312120	Breweries .....	5	7	4	c	D	D	D	D	D	D	D	5 010
31214	Distilleries .....	—	1	1	c	D	D	D	D	D	D	D	D
312140	Distilleries .....	—	1	1	c	D	D	D	D	D	D	D	D
313	Textile mills .....	2	36	8	621	21 421	492	977	15 004	82 096	59 194	142 734	1 528
3132	Fabric mills .....	1	12	5	454	17 339	346	671	11 843	74 398	49 928	125 906	1 134
31321	Broadwoven fabric mills .....	4	5	2	c	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	4	5	2	c	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills .....	—	2	1	c	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .....	—	2	1	c	D	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills .....	8	21	2	c	D	D	D	D	D	D	D	383
31331	Textile and fabric finishing mills .....	8	19	2	120	3 337	103	205	2 570	6 333	8 732	14 929	383
313311	Broadwoven fabric finishing mills .....	8	19	2	120	3 337	103	205	2 570	6 333	8 732	14 929	383
314	Textile product mills .....	1	141	19	1 892	49 648	1 377	2 583	28 539	114 525	82 547	201 606	D
3141	Textile furnishings mills .....	2	46	6	736	16 388	606	1 098	11 717	34 030	21 707	55 418	669
31412	Curtain and linen mills .....	2	42	6	730	16 237	602	1 090	11 608	33 735	20 975	54 391	660
314121	Curtain and drapery mills .....	5	29	—	122	2 547	95	164	1 452	5 459	3 833	9 277	105
314129	Other household textile product mills .....	1	13	6	608	13 690	507	926	10 156	28 276	17 142	45 114	555
3149	Other textile product mills .....	1	95	13	1 156	33 260	771	1 485	16 822	80 495	60 840	146 188	D
31491	Textile bag and canvas mills .....	2	41	5	372	11 423	264	497	5 155	21 219	19 990	41 385	567
314911	Textile bag mills .....	6	9	2	167	4 763	132	262	2 160	8 775	6 214	14 250	138
314912	Canvas and related product mills .....	1	32	3	205	6 660	132	235	2 995	12 444	13 776	27 135	429
31499	All other textile product mills .....	—	54	8	784	21 837	507	988	11 667	59 276	40 850	104 803	D
314999	All other miscellaneous textile product mills .....	1	51	7	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	3	115	14	1 332	31 734	1 095	2 124	23 355	78 306	38 588	117 840	1 287
3151	Apparel knitting mills .....	9	3	1	c	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	9	3	1	c	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	9	3	1	c	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	2	97	11	f	D	D	D	D	D	D	D	1 122
31521	Cut and sew apparel contractors .....	6	62	4	466	8 481	433	904	7 323	14 530	2 701	17 149	100
315211	Men's and boys' cut and sew apparel contractors .....	4	12	2	169	2 739	154	256	2 334	5 512	1 122	6 634	23
315212	Women's, girls', and infants' cut and sew apparel contractors .....	6	50	2	297	5 742	279	648	4 989	9 018	1 579	10 515	77
31522	Men's and boys' cut and sew apparel manufacturing .....	1	12	4	229	4 535	161	323	3 169	11 137	6 150	17 922	615
315228	Men's and boys' cut and sew other outerwear manufacturing .....	3	6	2	100	2 041	72	151	1 523	4 797	2 748	7 826	D
31523	Women's and girls' cut and sew apparel manufacturing .....	2	13	2	c	D	D	D	D	D	D	D	70

**Table 1. Industry Statistics for the State: 2002—Con.**

[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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
315	Apparel manufacturing—Con.												
3152	Cut and sew apparel manufacturing—Con.												
31529	Other cut and sew apparel manufacturing	1	10	1	c	D	D	D	D	D	D	D	337
315299	All other cut and sew apparel manufacturing	—	9	1	113	3 121	77	144	1 592	11 386	2 627	13 951	D
3159	Apparel accessories and other apparel manufacturing	2	'15	2	'242	'7 494	205	349	5 909	'27 745	'15 634	'43 848	D
31599	Apparel accessories and other apparel manufacturing	2	'15	2	'242	'7 494	205	349	5 909	'27 745	'15 634	'43 848	D
315991	Hat, cap, and millinery manufacturing	1	'4	2	c	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing	—	28	4	1 617	64 727	1 200	2 403	36 272	106 710	180 439	284 243	D
3161	Leather and hide tanning and finishing	—	6	3	449	16 294	367	744	10 576	45 294	121 458	163 093	721
31611	Leather and hide tanning and finishing	—	6	3	449	16 294	367	744	10 576	45 294	121 458	163 093	721
316110	Leather and hide tanning and finishing	—	6	3	449	16 294	367	744	10 576	45 294	121 458	163 093	721
3162	Footwear manufacturing	—	4	1	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing	—	4	1	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing	—	3	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	380	113	16 786	664 017	13 021	24 157	460 060	1 284 469	1 677 240	2 964 738	73 580
3211	Sawmills and wood preservation	1	81	13	987	28 758	817	1 571	21 394	71 593	118 970	190 193	4 561
32111	Sawmills and wood preservation	1	81	13	987	28 758	817	1 571	21 394	71 593	118 970	190 193	4 561
321113	Sawmills	1	69	9	831	23 211	707	1 341	18 525	60 978	74 291	135 065	4 159
321114	Wood preservation	—	12	4	156	5 547	110	230	2 869	10 615	44 679	55 128	402
3212	Veneer, plywood, and engineered wood product manufacturing	—	40	24	2 874	110 786	2 172	4 581	77 027	271 120	308 953	581 996	10 342
32121	Veneer, plywood, and engineered wood product manufacturing	—	40	24	2 874	110 786	2 172	4 581	77 027	271 120	308 953	581 996	10 342
321211	Hardwood veneer and plywood manufacturing	1	6	2	c	D	D	D	D	D	D	D	245
321213	Engineered wood member (except truss) manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
321214	Truss manufacturing	—	23	13	1 343	46 491	939	1 957	27 578	86 404	64 216	151 148	D
321219	Reconstituted wood product manufacturing	—	8	7	1 105	47 802	907	1 927	37 983	134 693	197 785	333 312	6 438
3219	Other wood product manufacturing	—	259	76	12 925	524 473	10 032	18 005	361 639	941 756	1 249 317	2 192 549	58 677
32191	Millwork	—	103	32	9 548	425 340	7 468	13 011	296 566	750 230	1 031 239	1 781 530	49 248
321911	Wood window and door manufacturing	—	42	17	8 376	391 830	6 532	11 244	272 092	672 898	935 021	1 608 333	44 499
321912	Cut stock, resawing lumber, and planing	—	24	8	784	22 699	659	1 264	18 369	61 485	74 198	135 333	3 540
321918	Other millwork (including flooring)	3	37	7	388	10 811	277	503	6 105	15 847	22 020	37 864	1 209
32192	Wood container and pallet manufacturing	2	73	19	970	25 328	799	1 514	17 905	52 273	61 327	113 851	2 799
321920	Wood container and pallet manufacturing	2	73	19	970	25 328	799	1 514	17 905	52 273	61 327	113 851	2 799
32199	All other wood product manufacturing	1	83	25	2 407	73 805	1 765	3 480	47 168	139 253	156 751	297 168	6 630
321991	Manufactured home (mobile home) manufacturing	—	8	5	872	25 483	701	1 410	18 928	56 120	67 538	123 042	1 644
321992	Prefabricated wood building manufacturing	1	24	6	568	19 684	368	730	10 581	22 584	32 743	56 922	890
321999	All other miscellaneous wood product manufacturing	1	51	14	967	28 638	696	1 340	17 659	60 549	56 470	117 204	4 096
322	Paper manufacturing	—	127	79	15 138	639 006	11 053	22 651	441 715	2 047 595	1 982 915	4 017 554	645 091
3221	Pulp, paper, and paperboard mills	—	11	10	3 685	208 868	2 933	6 082	163 520	763 418	769 483	1 498 027	493 479
32212	Paper mills	—	7	6	h	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	6	5	h	D	D	D	D	D	D	D	473 794
322122	Newsprint mills	—	1	1	e	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	3	3	e	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	3	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	116	69	11 453	430 138	8 120	16 569	278 195	1 284 177	1 213 432	2 519 527	151 612
32221	Paperboard container manufacturing	—	60	40	4 607	187 205	3 413	7 047	119 199	399 149	620 149	1 013 481	22 855
322211	Corrugated and solid fiber box manufacturing	—	40	30	3 397	130 643	2 468	5 104	80 833	286 823	487 232	766 064	13 693
322212	Folding paperboard box manufacturing	—	14	10	1 151	54 789	900	1 863	37 144	107 761	129 172	238 663	8 990

**Table 1. Industry Statistics for the State: 2002—Con.**

[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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
322	Paper manufacturing—Con.												
3222	Converted paper product manufacturing—Con.												
32222	Paper bag and coated and treated paper manufacturing . . .	—	21	12	4 534	162 113	3 030	6 138	109 677	724 568	440 451	1 189 139	121 331
322222	Coated and laminated paper manufacturing . . . . .	—	13	8	4 021	139 262	2 622	5 255	91 675	659 580	357 448	1 039 844	D
322223	Plastics, foil, and coated paper bag manufacturing . . .	—	1	1	c	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing . . . . .	—	1	1	c	D	D	D	D	D	D	D	D
322225	Laminated aluminum foil manufacturing for flexible packaging uses . . . . .	—	1	1	c	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing . . . . .	1	21	12	2 031	72 410	1 478	3 001	44 753	132 915	132 391	268 662	6 625
322231	Die-cut paper and paperboard office supplies manufacturing . . . . .	—	6	3	982	38 053	662	1 357	18 617	57 335	60 818	121 483	D
322232	Envelope manufacturing . . .	4	11	7	761	26 440	603	1 234	20 807	49 858	51 202	101 422	2 377
322233	Stationery, tablet, and related product manufacturing . . . .	—	4	2	288	7 917	213	410	5 329	25 722	20 371	45 757	D
32229	Other converted paper product manufacturing . . . . .	—	14	5	281	8 410	199	383	4 566	27 545	20 441	48 245	801
322299	All other converted paper product manufacturing . . . . .	—	13	4	c	D	D	D	D	D	D	D	801
323	Printing and related support activities . . . . .	1	922	258	31 397	1 144 670	21 631	41 265	688 767	'2 594 061	'1 626 050	'4 208 416	168 718
3231	Printing and related support activities . . . . .	1	922	258	31 397	1 144 670	21 631	41 265	688 767	'2 594 061	'1 626 050	'4 208 416	168 718
32311	Printing . . . . .	1	'835	231	'29 738	'1 072 922	'20 430	'38 833	'643 130	'2 452 993	'1 593 170	'4 035 978	'163 461
323110	Commercial lithographic printing . . . . .	1	396	139	21 047	769 167	14 824	28 139	476 734	1 695 825	1 121 182	2 804 991	104 277
323111	Commercial gravure printing .	5	9	3	231	8 538	173	315	5 916	20 576	15 619	35 766	772
323112	Commercial flexographic printing . . . . .	—	28	18	1 171	46 731	688	1 386	24 491	105 507	94 174	200 916	6 950
323113	Commercial screen printing . .	1	102	21	2 214	64 792	1 416	2 502	34 649	160 618	103 463	264 019	6 464
323114	Quick printing . . . . .	2	172	9	974	28 253	684	1 182	17 612	65 136	35 270	100 085	6 474
323115	Digital printing . . . . .	—	35	4	387	14 628	246	431	7 963	36 308	12 625	48 468	1 418
323116	Manifold business forms printing . . . . .	—	'18	14	'1 192	'39 711	'881	'1 789	'26 179	'112 237	'54 840	'168 733	'3 110
323117	Books printing . . . . .	—	7	4	404	14 705	304	642	10 227	37 579	27 094	64 849	D
323118	Blankbook, looseleaf binders, and devices manufacturing . .	—	7	5	838	30 437	469	976	12 133	103 743	47 718	151 809	D
323119	Other commercial printing . . .	2	61	14	1 280	55 960	745	1 471	27 226	115 464	81 185	196 342	9 734
32312	Support activities for printing . .	1	'87	27	'1 659	'71 748	'1 201	'2 432	'45 637	'141 068	'32 880	'172 438	'5 257
323121	Tradebinding and related work . . . . .	2	'41	13	'719	'21 150	'572	'1 176	'15 230	'42 657	'11 626	'53 812	'2 030
323122	Prepress services . . . . .	1	46	14	940	50 598	629	1 256	30 407	'98 411	'21 254	118 626	3 227
324	Petroleum and coal products manufacturing . . . . .	—	27	12	1 939	120 015	1 207	2 571	71 189	655 501	3 394 758	4 056 453	112 680
3241	Petroleum and coal products manufacturing . . . . .	—	27	12	1 939	120 015	1 207	2 571	71 189	655 501	3 394 758	4 056 453	112 680
32411	Petroleum refineries . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing . . . . .	—	20	9	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing . . . . .	—	14	5	e	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing . . . .	—	6	4	520	26 270	341	760	16 410	81 257	140 923	215 125	37 140
325	Chemical manufacturing . . . . .	1	260	99	8 380	399 534	4 551	9 136	169 754	1 926 861	1 227 951	3 134 024	149 797
3251	Basic chemical manufacturing . . .	1	34	20	807	38 404	489	1 055	20 172	218 369	263 595	483 582	37 370
32512	Industrial gas manufacturing . . .	—	6	3	106	5 184	44	75	1 718	21 201	9 342	30 607	D
325120	Industrial gas manufacturing . .	—	6	3	106	5 184	44	75	1 718	21 201	9 342	30 607	D
32519	Other basic organic chemical manufacturing . . . . .	1	21	16	636	30 308	386	849	16 028	181 417	246 069	428 991	35 758
325193	Ethyl alcohol manufacturing . . .	1	11	11	331	14 512	249	566	10 268	146 155	195 592	341 676	33 898
325199	All other basic organic chemical manufacturing . . . .	2	10	5	305	15 796	137	283	5 760	35 262	50 477	87 315	1 860
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing . . . . .	—	15	6	552	20 775	377	840	12 894	46 138	54 113	99 878	2 239
32521	Resin and synthetic rubber manufacturing . . . . .	—	15	6	552	20 775	377	840	12 894	46 138	54 113	99 878	2 239
325211	Plastics material and resin manufacturing . . . . .	—	14	6	f	D	D	D	D	D	D	D	2 239
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing . . . . .	—	18	2	134	4 453	91	177	2 344	26 630	52 857	76 058	1 157

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
325 3254	Chemical manufacturing—Con. Pharmaceutical and medicine manufacturing .....	2	39	16	1 909	100 084	902	1 820	36 077	736 721	294 469	1 020 317	39 265
32541	Pharmaceutical and medicine manufacturing .....	2	39	16	1 909	100 084	902	1 820	36 077	736 721	294 469	1 020 317	39 265
325411	Medicinal and botanical manufacturing .....	6	9	3	287	15 571	85	165	3 366	105 022	38 397	133 892	1 866
325412	Pharmaceutical preparation manufacturing .....	—	14	7	1 129	60 182	566	1 226	22 802	557 614	180 969	728 468	32 297
325413	In-vitro diagnostic substance manufacturing .....	6	6	3	292	15 556	133	252	6 236	58 821	62 491	125 106	3 138
325414	Biological product (except diagnostic) manufacturing ..	4	10	3	201	8 775	118	177	3 673	15 264	12 612	32 851	1 964
3255	Paint, coating, and adhesive manufacturing .....	5	28	13	693	30 450	393	631	12 039	81 449	83 827	164 727	D
32551	Paint and coating manufacturing .....	6	20	8	481	20 358	262	393	6 968	44 007	42 226	85 600	1 000
325510	Paint and coating manufacturing .....	6	20	8	481	20 358	262	393	6 968	44 007	42 226	85 600	1 000
32552	Adhesive manufacturing .....	5	8	5	212	10 092	131	238	5 071	37 442	41 601	79 127	D
325520	Adhesive manufacturing .....	5	8	5	212	10 092	131	238	5 071	37 442	41 601	79 127	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	70	18	1 675	71 890	960	1 875	31 308	331 754	202 074	526 478	D
32561	Soap and cleaning compound manufacturing .....	2	46	9	550	23 994	299	607	10 276	88 894	52 391	140 519	D
325611	Soap and other detergent manufacturing .....	1	19	5	315	14 987	165	346	6 607	58 029	33 793	91 000	1 848
325612	Polish and other sanitation good manufacturing .....	5	26	4	c	D	D	D	D	D	D	D	2 973
32562	Toilet preparation manufacturing .....	1	24	9	1 125	47 896	661	1 268	21 032	242 860	149 683	385 959	6 248
325620	Toilet preparation manufacturing .....	1	24	9	1 125	47 896	661	1 268	21 032	242 860	149 683	385 959	6 248
3259	Other chemical product and preparation manufacturing .....	—	56	24	2 610	133 478	1 339	2 738	54 920	485 800	277 016	762 984	56 925
32591	Printing ink manufacturing .....	3	12	7	421	21 070	185	418	8 259	48 334	73 213	124 499	D
325910	Printing ink manufacturing .....	3	12	7	421	21 070	185	418	8 259	48 334	73 213	124 499	D
32599	All other chemical product and preparation manufacturing ..	—	41	16	2 145	110 084	1 146	2 306	46 395	432 493	197 986	627 444	51 257
325991	Custom compounding of purchased resins .....	—	10	3	551	21 333	324	662	9 430	62 148	66 399	127 521	D
325992	Photographic film, paper, plate, and chemical manufacturing .....	—	7	3	152	6 025	92	165	3 064	10 787	8 498	19 190	338
325998	All other miscellaneous chemical product and preparation manufacturing ..	—	24	10	1 442	82 726	730	1 479	33 901	359 558	123 089	480 733	D
326	Plastics and rubber products manufacturing .....	2	379	177	18 843	629 283	14 287	28 426	402 071	1 600 957	1 218 576	2 818 178	122 935
3261	Plastics product manufacturing ..	1	331	160	17 609	588 988	13 469	26 818	379 731	1 522 128	1 150 415	2 671 614	119 438
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	1	44	22	2 210	86 582	1 671	3 487	57 747	246 481	258 064	505 633	21 174
326111	Plastics bag manufacturing ..	1	10	4	376	13 100	305	634	9 686	30 187	37 143	67 217	1 426
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	4	6	4	292	14 650	194	395	8 685	28 641	33 195	61 707	10 274
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	28	14	1 542	58 832	1 172	2 458	39 376	187 653	187 726	376 709	9 474
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	—	23	12	1 516	51 272	1 169	2 193	33 878	117 651	154 998	288 015	7 800
326121	Unlaminated plastics profile shape manufacturing .....	—	14	8	1 147	40 336	877	1 663	26 306	71 534	102 825	185 894	6 085
326122	Plastics pipe and pipe fitting manufacturing .....	—	9	4	369	10 936	292	530	7 572	46 117	52 173	102 121	1 715
32614	Polystyrene foam product manufacturing .....	7	12	8	452	13 396	347	666	9 010	33 270	29 632	63 355	3 983
326140	Polystyrene foam product manufacturing .....	7	12	8	452	13 396	347	666	9 010	33 270	29 632	63 355	3 983
32615	Urethane and other foam product (except polystyrene) manufacturing .....	1	11	4	207	6 545	161	297	3 890	16 327	16 528	32 885	348
326150	Urethane and other foam product (except polystyrene) manufacturing .....	1	11	4	207	6 545	161	297	3 890	16 327	16 528	32 885	348
32616	Plastics bottle manufacturing ..	—	4	4	130	3 934	115	216	3 036	10 158	7 639	17 921	1 065
326160	Plastics bottle manufacturing .....	—	4	4	130	3 934	115	216	3 036	10 158	7 639	17 921	1 065
32619	Other plastics product manufacturing .....	2	227	109	13 013	424 426	9 939	19 823	270 034	1 092 196	677 732	1 752 052	83 963
326191	Plastics plumbing fixture manufacturing .....	2	11	2	213	6 674	161	294	4 282	25 166	13 135	37 489	704
326199	All other plastics product manufacturing .....	2	216	107	12 800	417 752	9 778	19 529	265 752	1 067 030	664 597	1 714 563	83 259

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<b>MINNESOTA—Con.</b>													
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing . . .	3	48	17	1 234	40 295	818	1 608	22 340	78 829	68 161	146 564	3 497
32621	Tire manufacturing . . . . .	—	8	4	150	4 739	82	145	2 335	6 120	15 974	21 786	658
326212	Tire retreading . . . . .	—	7	4	c	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing . . . . .	4	6	2	221	7 472	156	307	4 371	11 027	13 124	24 078	429
326220	Rubber and plastics hoses and belting manufacturing . .	4	6	2	221	7 472	156	307	4 371	11 027	13 124	24 078	429
32629	Other rubber product manufacturing . . . . .	4	34	11	863	28 084	580	1 156	15 634	61 682	39 063	100 700	2 410
326291	Rubber product manufacturing for mechanical use . . . . .	2	17	8	526	17 072	352	708	9 521	36 030	20 471	56 244	1 054
326299	All other rubber product manufacturing . . . . .	6	17	3	337	11 012	228	448	6 113	25 652	18 592	44 456	1 356
327	Nonmetallic mineral product manufacturing . . . . .	—	319	89	9 789	380 908	7 405	15 355	270 182	1 103 195	731 873	1 838 657	58 516
3271	Clay product and refractory manufacturing . . . . .	1	24	3	c	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing . . . . .	2	19	2	c	D	D	D	D	D	D	D	152
327112	Vitreous china, fine earthenware, and other pottery product manufacturing . . . . .	1	18	2	101	2 005	75	131	1 165	4 895	1 526	6 433	D
3272	Glass and glass product manufacturing . . . . .	—	32	8	2 382	93 840	1 901	4 154	65 245	252 749	154 396	409 790	13 310
32721	Glass and glass product manufacturing . . . . .	—	32	8	2 382	93 840	1 901	4 154	65 245	252 749	154 396	409 790	13 310
327213	Glass container manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass . .	—	26	7	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing . . . . .	1	207	61	4 647	183 266	3 136	6 488	121 500	445 763	395 746	843 638	31 283
32732	Ready-mix concrete manufacturing . . . . .	2	118	33	2 024	77 581	1 366	2 760	52 092	221 498	223 029	443 380	13 998
327320	Ready-mix concrete manufacturing . . . . .	2	118	33	2 024	77 581	1 366	2 760	52 092	221 498	223 029	443 380	13 998
32733	Concrete pipe, brick, and block manufacturing . . . . .	—	39	18	g	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing . . . . .	—	25	10	560	26 464	386	827	17 264	79 555	41 281	123 760	D
327332	Concrete pipe manufacturing . . . . .	—	14	8	f	D	D	D	D	D	D	D	3 859
32739	Other concrete product manufacturing . . . . .	—	49	10	1 428	54 879	861	1 878	33 173	73 747	90 777	165 287	7 434
327390	Other concrete product manufacturing . . . . .	—	49	10	1 428	54 879	861	1 878	33 173	73 747	90 777	165 287	7 434
3279	Other nonmetallic mineral product manufacturing . . . . .	—	54	17	2 553	98 402	2 206	4 401	79 749	390 121	176 200	565 124	13 438
32791	Abrasive product manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
327910	Abrasive product manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing . . . . .	—	49	15	g	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing . . . . .	1	36	12	1 450	55 794	1 269	2 560	47 378	145 997	62 873	209 197	5 897
327993	Mineral wool manufacturing . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing . . . . .	—	90	52	7 065	268 314	5 436	10 950	183 535	612 425	604 501	1 209 854	32 555
3311	Iron and steel mills and ferroalloy manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing . . . . .	—	8	4	614	23 528	466	924	15 616	58 109	176 323	231 194	6 273
33131	Alumina and aluminum production and processing . . . . .	—	8	4	614	23 528	466	924	15 616	58 109	176 323	231 194	6 273
331314	Secondary smelting and alloying of aluminum . . . . .	—	3	1	c	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing . . . . .	—	3	3	e	D	D	D	D	D	D	D	D

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<b>MINNESOTA—Con.</b>													
331	Primary metal manufacturing—Con.												
3314	Nonferrous metal (except aluminum) production and processing .....	1	15	3	e	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	2	1	c	D	D	D	D	D	D	D	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	2	1	c	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	3	10	1	c	D	D	D	D	D	D	D	231
3315	Foundries .....	—	57	41	5 158	178 722	4 023	7 942	124 847	419 149	248 275	666 780	15 932
33151	Ferrous metal foundries .....	—	24	16	1 427	52 048	1 148	2 243	36 433	128 722	84 742	211 863	4 155
331511	Iron foundries .....	—	17	10	1 145	42 387	930	1 834	30 332	103 776	69 077	171 641	3 448
331512	Steel investment foundries ..	—	2	2	c	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	—	5	4	c	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ..	—	33	25	3 731	126 674	2 875	5 699	88 414	290 427	163 533	454 917	11 777
331521	Aluminum die-casting foundries .....	—	10	9	1 527	56 492	1 189	2 396	40 102	134 369	71 111	206 104	2 322
331522	Nonferrous (except aluminum) die-casting foundries .....	—	9	8	f	D	D	D	D	D	D	D	6 915
331524	Aluminum foundries (except die-casting) .....	1	10	7	1 334	41 994	1 106	2 023	30 929	91 278	48 519	140 362	D
332	Fabricated metal product manufacturing .....	—	1 581	450	40 278	1 615 517	27 749	54 286	927 881	3 747 456	2 800 669	6 533 209	217 033
3321	Forging and stamping .....	—	82	47	4 319	158 939	3 248	6 440	102 364	381 449	178 542	557 693	29 572
33211	Forging and stamping .....	—	82	47	4 319	158 939	3 248	6 440	102 364	381 449	178 542	557 693	29 572
332114	Custom roll forming .....	—	11	4	242	8 366	180	408	5 403	17 966	25 739	43 617	D
332116	Metal stamping .....	—	67	41	3 956	146 359	2 964	5 790	93 721	351 154	147 815	497 477	27 582
3322	Cutlery and handtool manufacturing .....	—	39	15	2 219	100 838	1 169	2 306	34 065	220 318	369 985	596 068	5 092
33221	Cutlery and handtool manufacturing .....	—	39	15	2 219	100 838	1 169	2 306	34 065	220 318	369 985	596 068	5 092
332212	Hand and edge tool manufacturing .....	—	32	13	2 030	91 688	1 068	2 076	30 498	195 105	303 032	501 152	3 553
332214	Kitchen utensil, pot, and pan manufacturing .....	—	2	1	c	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	289	92	6 171	231 187	4 422	8 273	140 839	527 572	464 526	984 506	28 579
33231	Plate work and fabricated structural product manufacturing .....	—	123	37	2 389	91 303	1 662	3 027	55 460	192 045	211 612	400 091	14 624
332311	Prefabricated metal building and component manufacturing .....	1	12	2	275	8 886	188	362	4 973	19 963	19 034	37 830	D
332312	Fabricated structural metal manufacturing .....	1	83	24	1 324	52 334	878	1 654	30 535	112 095	152 257	261 760	6 014
332313	Plate work manufacturing ..	—	28	11	790	30 083	596	1 011	19 952	59 987	40 321	100 501	D
33232	Ornamental and architectural metal products manufacturing .....	1	166	55	3 782	139 884	2 760	5 246	85 379	335 527	252 914	584 415	13 955
332321	Metal window and door manufacturing .....	2	16	5	242	8 546	166	342	4 728	21 357	14 143	35 233	402
332322	Sheet metal work manufacturing .....	1	99	35	2 845	104 003	2 114	3 962	64 887	242 860	185 129	423 310	10 505
332323	Ornamental and architectural metal work manufacturing ..	1	51	15	695	27 335	480	942	15 764	71 310	53 642	125 872	3 048
3324	Boiler, tank, and shipping container manufacturing .....	—	32	21	2 523	103 500	1 872	3 825	73 170	318 096	601 585	921 237	12 920
33241	Power boiler and heat exchanger manufacturing ....	—	8	3	438	16 714	288	661	10 482	88 207	251 661	339 823	1 112
332410	Power boiler and heat exchanger manufacturing ..	—	8	3	438	16 714	288	661	10 482	88 207	251 661	339 823	1 112
33242	Metal tank (heavy gauge) manufacturing .....	3	13	9	1 074	42 921	723	1 417	26 173	83 864	69 051	152 754	2 042
332420	Metal tank (heavy gauge) manufacturing .....	3	13	9	1 074	42 921	723	1 417	26 173	83 864	69 051	152 754	2 042
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	11	9	1 011	43 865	861	1 747	36 515	146 025	280 873	428 660	9 766
332431	Metal can manufacturing ....	—	7	7	f	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	—	4	2	c	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	—	19	3	1 231	40 382	925	1 806	23 802	125 572	57 365	183 330	5 841
33251	Hardware manufacturing .....	—	19	3	1 231	40 382	925	1 806	23 802	125 572	57 365	183 330	5 841
332510	Hardware manufacturing .....	—	19	3	1 231	40 382	925	1 806	23 802	125 572	57 365	183 330	5 841

**Table 1. Industry Statistics for the State: 2002—Con.**

[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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3326	Spring and wire product manufacturing .....	1	42	15	1 121	38 063	809	1 488	24 750	85 490	57 234	144 398	2 190
33261	Spring and wire product manufacturing .....	1	42	15	1 121	38 063	809	1 488	24 750	85 490	57 234	144 398	2 190
332612	Spring (light gauge) manufacturing .....	—	4	3	c	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	1	36	12	995	33 293	715	1 303	21 318	75 611	49 977	127 584	2 113
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	'753	'146	'10 883	'430 923	'8 098	'15 863	'286 085	'882 630	'428 939	'1 310 325	'73 688
33271	Machine shops .....	1	'652	'104	'7 962	'314 233	'5 779	'11 099	'201 192	'648 742	'313 494	'960 720	'54 954
332710	Machine shops .....	1	'652	'104	'7 962	'314 233	'5 779	'11 099	'201 192	'648 742	'313 494	'960 720	'54 954
33272	Turned product and screw, nut, and bolt manufacturing .....	2	101	42	2 921	116 690	2 319	4 764	84 893	233 888	115 445	349 605	18 734
332721	Precision turned product manufacturing .....	2	89	37	2 491	100 553	2 001	4 249	75 078	195 904	97 779	293 894	16 988
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	12	5	430	16 137	318	515	9 815	37 984	17 666	55 711	1 746
3328	Coating, engraving, heat treating, and allied activities .....	1	'171	'55	'4 107	'130 023	'3 223	'6 292	'88 064	'251 731	'104 445	'356 278	'19 895
33281	Coating, engraving, heat treating, and allied activities ..	1	'171	'55	'4 107	'130 023	'3 223	'6 292	'88 064	'251 731	'104 445	'356 278	'19 895
332811	Metal heat treating .....	—	14	7	353	14 182	289	605	10 362	29 027	5 561	34 538	6 283
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	'1	'80	'23	'1 520	'45 785	'1 183	'2 069	'30 460	'96 396	'34 289	'130 718	'6 950
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	77	25	2 234	70 056	1 751	3 618	47 242	126 308	64 595	191 022	6 662
3329	Other fabricated metal product manufacturing .....	—	154	56	7 704	381 662	3 983	7 993	154 742	954 598	538 048	1 479 374	39 256
33291	Metal valve manufacturing ....	—	30	17	2 345	111 721	1 529	3 071	62 239	257 844	188 252	447 877	19 399
332911	Industrial valve manufacturing .....	—	10	8	1 166	61 366	705	1 378	32 370	143 396	115 790	258 045	12 168
332912	Fluid power valve and hose fitting manufacturing .....	—	17	8	1 128	48 542	775	1 596	28 163	108 753	70 536	181 979	D
33299	All other fabricated metal product manufacturing .....	—	124	39	5 359	269 941	2 454	4 922	92 503	696 754	349 796	1 031 497	19 857
332992	Small arms ammunition manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing .....	1	11	5	353	14 960	256	502	9 030	25 833	36 419	64 334	1 556
332997	Industrial pattern manufacturing .....	—	13	3	139	6 369	125	203	5 639	10 528	3 470	13 929	1 191
332999	All other miscellaneous fabricated metal product manufacturing .....	1	90	26	1 737	63 142	1 255	2 427	39 787	173 633	93 966	265 145	8 793
333	Machinery manufacturing .....	1	846	305	'34 225	'1 459 178	'20 490	'40 261	'697 834	'3 481 040	'3 209 804	'6 803 564	173 997
3331	Agriculture, construction, and mining machinery manufacturing .....	—	122	44	5 584	191 927	3 841	7 432	112 661	621 373	870 765	1 541 735	37 609
33311	Agricultural implement manufacturing .....	—	81	29	h	D	D	D	D	D	D	D	22 748
333111	Farm machinery and equipment manufacturing ..	—	76	27	3 260	99 783	2 217	4 322	60 815	412 767	458 946	897 045	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	—	5	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	—	32	14	1 574	70 475	983	1 862	35 520	139 360	233 546	396 477	14 554
333120	Construction machinery manufacturing .....	—	32	14	1 574	70 475	983	1 862	35 520	139 360	233 546	396 477	14 554
3332	Industrial machinery manufacturing .....	1	114	47	3 872	200 761	1 943	3 916	72 070	'341 894	'381 340	'725 655	19 568
33321	Sawmill and woodworking machinery manufacturing ....	—	13	6	517	24 846	275	556	11 162	44 176	61 632	107 896	1 811
333210	Sawmill and woodworking machinery manufacturing ..	—	13	6	517	24 846	275	556	11 162	44 176	61 632	107 896	1 811
33322	Plastics and rubber industry machinery manufacturing ....	'3	9	3	176	9 265	115	252	5 147	'16 253	'13 303	'33 339	420
333220	Plastics and rubber industry machinery manufacturing ..	'3	9	3	176	9 265	115	252	5 147	'16 253	'13 303	'33 339	420
33329	Other industrial machinery manufacturing .....	1	92	38	3 179	166 650	1 553	3 108	55 761	281 465	306 405	584 420	17 337
333293	Printing machinery and equipment manufacturing ..	3	15	3	309	17 228	107	223	3 822	31 507	36 331	68 032	1 485
333294	Food product machinery manufacturing .....	1	24	15	1 055	50 838	588	1 182	20 536	81 843	121 720	203 753	4 692
333295	Semiconductor machinery manufacturing .....	—	6	5	738	48 247	246	536	8 323	84 968	71 438	152 849	9 479
333298	All other industrial machinery manufacturing .....	2	43	13	977	45 172	542	1 007	19 955	75 271	67 950	142 911	1 453

**Table 1. Industry Statistics for the State: 2002—Con.**

[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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	1	72	27	3 879	175 958	2 157	4 231	72 922	640 994	481 260	1 125 908	26 315
33331	Commercial and service industry machinery .....	1	72	27	3 879	175 958	2 157	4 231	72 922	640 994	481 260	1 125 908	26 315
333311	Automatic vending machine manufacturing .....	—	5	2	335	13 899	263	475	9 380	25 211	24 802	50 050	D
333313	Office machinery manufacturing .....	—	3	2	336	15 899	169	364	6 380	24 781	23 246	48 744	D
333314	Optical instrument and lens manufacturing .....	3	6	1	c	D	D	D	D	D	D	D	414
333315	Photographic and photocopying equipment manufacturing .....	—	10	4	449	21 979	125	258	4 158	71 949	107 915	181 823	518
333319	Other commercial and service industry machinery manufacturing .....	1	47	18	2 619	116 119	1 564	3 057	51 623	512 588	318 107	831 632	20 588
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	67	34	'4 187	'161 251	'2 637	'5 215	'83 293	361 024	309 460	701 459	13 885
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	67	34	'4 187	'161 251	'2 637	'5 215	'83 293	361 024	309 460	701 459	13 885
333411	Air purification equipment manufacturing .....	—	8	3	135	4 525	87	178	2 040	11 167	6 394	17 569	320
333412	Industrial and commercial fan and blower manufacturing ..	—	8	4	315	11 418	200	387	6 023	25 630	20 393	44 892	410
333414	Heating equipment (except warm air furnaces) manufacturing .....	—	26	9	'933	'28 707	'552	'1 101	'15 047	136 002	91 919	228 466	7 719
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	25	18	2 804	116 601	1 798	3 549	60 183	188 225	190 754	410 532	5 436
3335	Metalworking machinery manufacturing .....	1	248	55	4 792	219 554	3 217	6 161	131 570	369 058	199 075	571 847	16 420
33351	Metalworking machinery manufacturing .....	1	248	55	4 792	219 554	3 217	6 161	131 570	369 058	199 075	571 847	16 420
333511	Industrial mold manufacturing .....	1	100	15	1 111	52 104	809	1 549	36 261	89 613	33 908	125 389	5 832
333512	Machine tool (metal cutting types) manufacturing .....	—	12	7	656	26 128	397	763	13 464	30 652	53 737	85 463	4 509
333513	Machine tool (metal forming types) manufacturing .....	—	4	3	112	3 077	88	131	2 030	6 232	4 746	10 818	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	81	20	1 994	98 836	1 342	2 685	57 028	170 235	56 599	224 281	4 133
333515	Cutting tool and machine tool accessory manufacturing...	1	39	4	551	21 033	388	671	13 954	39 834	17 677	60 732	1 312
333518	Other metalworking machinery manufacturing ..	—	12	6	368	18 376	193	362	8 833	32 492	32 408	65 164	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	17	12	1 240	48 206	839	1 614	27 470	97 677	104 560	201 820	13 588
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	17	12	1 240	48 206	839	1 614	27 470	97 677	104 560	201 820	13 588
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	—	7	5	418	17 141	310	538	11 675	34 472	26 641	61 338	D
333613	Mechanical power transmission equipment manufacturing .....	1	5	4	347	14 269	191	440	5 961	33 270	17 021	48 820	1 631
333618	Other engine equipment manufacturing .....	—	5	3	475	16 796	338	636	9 834	29 935	60 898	91 662	D
3339	Other general purpose machinery manufacturing .....	1	206	86	10 671	461 521	5 856	11 692	197 848	1 049 020	863 344	1 935 140	46 612
33391	Pump and compressor manufacturing .....	—	17	8	1 597	80 368	899	1 838	37 859	266 465	231 803	504 678	5 805
333911	Pump and pumping equipment manufacturing ..	—	7	4	960	53 496	593	1 195	28 216	169 418	116 752	297 104	D
333912	Air and gas compressor manufacturing .....	—	9	3	f	D	D	D	D	D	D	D	1 485
33392	Material handling equipment manufacturing .....	1	'64	'23	'1 973	'72 787	'1 103	'2 250	'32 775	'154 048	'142 725	'298 174	'5 942
333921	Elevator and moving stairway manufacturing .....	—	6	2	302	12 149	100	196	3 394	24 108	28 587	54 284	D
333922	Conveyor and conveying equipment manufacturing ..	1	'27	'9	'820	'30 058	'434	'889	'12 940	'58 457	'55 043	'112 963	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	2	15	6	337	12 596	194	374	5 554	25 603	26 918	53 559	702
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	3	16	6	514	17 984	375	791	10 887	45 880	32 177	77 368	1 322



**Table 1. Industry Statistics for the State: 2002—Con.**

[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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing—Con.												
33399	All other general purpose machinery manufacturing . . . .	1	'125	'55	'7 101	'308 366	'3 854	'7 604	'127 214	'628 507	'488 816	'1 132 288	'34 865
333993	Packaging machinery manufacturing . . . . .	2	'37	'20	'2 463	'103 265	'1 262	'2 667	'47 485	'171 399	'134 050	'306 971	'8 336
333994	Industrial process furnace and oven manufacturing . . .	2	7	3	282	17 458	102	203	3 997	20 150	17 983	39 245	778
333995	Fluid power cylinder and actuator manufacturing . . . .	1	10	6	415	18 510	241	384	7 746	30 915	30 165	64 398	2 211
333996	Fluid power pump and motor manufacturing . . . . .	—	6	3	325	14 498	192	375	6 744	30 071	33 230	64 346	607
333997	Scale and balance (except laboratory) manufacturing . .	—	3	2	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing . . . . .	—	56	20	3 094	135 035	1 756	3 390	52 318	337 727	236 333	578 808	21 772
334	Computer and electronic product manufacturing . . . . .	—	'420	'210	'51 912	'2 600 153	24 123	47 969	837 394	'7 315 162	'4 609 360	'11 932 751	'368 633
3341	Computer and peripheral equipment manufacturing . . . . .	—	55	26	14 452	851 632	3 686	7 421	131 684	1 490 077	1 438 000	2 836 461	136 935
33411	Computer and peripheral equipment manufacturing . . . .	—	55	26	14 452	851 632	3 686	7 421	131 684	1 490 077	1 438 000	2 836 461	136 935
334111	Electronic computer manufacturing . . . . .	3	14	6	449	25 681	70	140	3 139	41 333	48 926	94 094	D
334112	Computer storage device manufacturing . . . . .	2	10	4	4 693	261 099	2 207	4 649	75 543	76 320	110 763	188 536	D
334119	Other computer peripheral equipment manufacturing . .	—	28	15	9 280	563 793	1 398	2 612	52 699	1 370 484	1 275 584	2 549 169	69 009
3342	Communications equipment manufacturing . . . . .	—	32	13	2 421	101 809	1 393	2 743	44 520	557 722	445 043	1 000 485	7 182
33421	Telephone apparatus manufacturing . . . . .	—	13	7	1 110	44 003	807	1 579	27 569	392 103	321 025	712 673	3 925
334210	Telephone apparatus manufacturing . . . . .	—	13	7	1 110	44 003	807	1 579	27 569	392 103	321 025	712 673	3 925
33422	Radio and television broadcasting and wireless communications equipment manufacturing . . . . .	6	11	3	481	18 895	217	411	5 369	31 395	42 819	73 937	1 130
334220	Radio and television broadcasting and wireless communications equipment manufacturing . . . . .	6	11	3	481	18 895	217	411	5 369	31 395	42 819	73 937	1 130
33429	Other communications equipment manufacturing . . . .	—	8	3	830	38 911	369	753	11 582	134 224	81 199	213 875	2 127
334290	Other communications equipment manufacturing . .	—	8	3	830	38 911	369	753	11 582	134 224	81 199	213 875	2 127
3343	Audio and video equipment manufacturing . . . . .	5	12	5	364	12 692	191	383	4 186	16 002	32 056	48 124	2 314
33431	Audio and video equipment manufacturing . . . . .	5	12	5	364	12 692	191	383	4 186	16 002	32 056	48 124	2 314
334310	Audio and video equipment manufacturing . . . . .	5	12	5	364	12 692	191	383	4 186	16 002	32 056	48 124	2 314
3344	Semiconductor and other electronic component manufacturing . . . . .	—	146	80	12 529	484 384	8 298	16 300	245 427	1 187 129	1 214 806	2 439 693	85 218
33441	Semiconductor and other electronic component manufacturing . . . . .	—	146	80	12 529	484 384	8 298	16 300	245 427	1 187 129	1 214 806	2 439 693	85 218
334412	Bare printed circuit board manufacturing . . . . .	—	44	25	2 687	87 907	1 833	3 652	44 453	208 486	139 140	352 041	17 176
334413	Semiconductor and related device manufacturing . . . . .	1	18	8	1 833	115 721	1 065	2 010	54 333	238 522	110 156	357 356	31 331
334415	Electronic resistor manufacturing . . . . .	9	1	1	c	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, and other inductor manufacturing . . . . .	1	11	4	e	D	D	D	D	D	D	D	D
334417	Electronic connector manufacturing . . . . .	—	11	7	416	19 670	295	632	12 383	94 285	61 143	160 565	D
334418	Printed circuit assembly (electronic assembly) manufacturing . . . . .	—	24	17	3 887	140 394	2 605	5 087	74 191	402 107	740 130	1 160 334	19 773
334419	Other electronic component manufacturing . . . . .	2	37	18	3 167	103 078	2 109	4 134	49 934	212 762	150 021	364 823	6 250
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	155	78	21 415	1 122 282	10 005	20 114	395 495	3 987 965	1 415 518	5 468 088	134 441
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . .	—	155	78	21 415	1 122 282	10 005	20 114	395 495	3 987 965	1 415 518	5 468 088	134 441
334510	Electromedical and electrotherapeutic apparatus manufacturing . . .	—	42	29	8 771	460 227	4 305	9 257	159 356	2 212 369	557 969	2 785 513	85 748
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing . . . . .	—	10	6	h	D	D	D	D	D	D	D	9 672

**Table 1. Industry Statistics for the State: 2002—Con.**

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
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.												
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use.....	-	13	4	1 916	104 500	1 052	1 969	44 927	255 004	56 071	357 301	4 348
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables.....	-	30	11	2 223	101 984	907	1 808	39 086	267 803	128 157	396 834	16 986
334514	Totalizing fluid meter and counting device manufacturing.....	-	3	2	e	D	D	D	D	D	D	D	862
334515	Instrument manufacturing for measuring and testing electricity and electrical signals.....	3	19	9	821	47 228	379	715	15 830	77 633	34 044	115 965	D
334516	Analytical laboratory instrument manufacturing..	-	10	6	1 086	64 518	530	941	26 088	236 898	91 561	329 478	4 745
334518	Watch, clock, and part manufacturing.....	1	4	1	107	3 878	50	69	1 082	7 386	3 919	11 520	D
334519	Other measuring and controlling device manufacturing.....	-	21	10	2 718	145 759	944	1 687	37 484	316 554	264 177	585 041	8 203
3346	Manufacturing and reproducing magnetic and optical media.....	'4	'20	'8	'731	'27 354	550	1 008	16 082	'76 267	'63 937	'139 900	'2 543
33461	Manufacturing and reproducing magnetic and optical media...	'4	'20	'8	'731	'27 354	550	1 008	16 082	'76 267	'63 937	'139 900	'2 543
334611	Software reproducing.....	3	6	1	c	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing.....	'6	'11	'5	'537	'18 070	418	760	12 401	'54 383	'33 624	'87 777	D
335	Electrical equipment, appliance, and component manufacturing.....	-	'147	'69	'13 167	'505 046	'8 600	'16 320	'261 788	'1 447 646	'1 626 211	'3 094 520	'75 947
3351	Electric lighting equipment manufacturing.....	-	14	5	g	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing..	-	14	5	g	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing.....	1	4	1	c	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing.....	-	8	4	1 145	44 291	545	1 052	14 043	88 282	222 358	309 094	D
3352	Household appliance manufacturing.....	-	3	2	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing..	-	2	2	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing.....	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing.....	-	79	34	5 242	218 561	3 064	5 481	100 983	543 019	718 197	1 262 227	19 059
33531	Electrical equipment manufacturing.....	-	79	34	5 242	218 561	3 064	5 481	100 983	543 019	718 197	1 262 227	19 059
335311	Power, distribution, and specialty transformer manufacturing.....	8	10	3	134	4 673	103	195	3 001	12 819	11 256	24 083	625
335312	Motor and generator manufacturing.....	-	19	10	2 891	125 064	1 701	2 865	61 441	342 535	533 080	876 516	11 669
335313	Switchgear and switchboard apparatus manufacturing...	1	16	8	685	26 276	452	886	14 895	57 347	64 387	123 087	2 074
335314	Relay and industrial control manufacturing.....	1	34	13	1 532	62 548	808	1 535	21 646	130 318	109 474	238 541	4 691
3359	Other electrical equipment and component manufacturing.....	-	'51	'28	h	D	D	D	D	D	D	D	'30 199
33592	Communication and energy wire and cable manufacturing..	4	8	4	e	D	D	D	D	D	D	D	D
335921	Fiber optic cable manufacturing.....	9	3	1	c	D	D	D	D	D	D	D	315
335929	Other communication and energy wire manufacturing..	-	5	3	c	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing...	-	12	8	h	D	D	D	D	D	D	D	21 676
335931	Current-carrying wiring device manufacturing.....	-	10	7	1 506	52 748	1 141	2 321	29 831	301 593	176 313	476 847	D
335932	Noncurrent-carrying wiring device manufacturing.....	-	2	1	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing.....	2	'27	'14	g	D	D	D	D	D	D	D	'7 352
335999	All other miscellaneous electrical equipment and component manufacturing..	2	'26	'14	'1 409	'44 632	'785	'1 518	'18 252	'92 477	'165 089	'272 946	'7 352

**Table 1. Industry Statistics for the State: 2002—Con.**

[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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNESOTA—Con.</b>													
336	Transportation equipment manufacturing .....	—	203	76	16 517	628 280	12 531	24 464	446 772	2 321 684	4 065 266	6 382 995	88 689
3361	Motor vehicle manufacturing .....	—	6	3	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	—	4	2	306	10 315	171	394	5 221	41 083	96 416	150 734	2 251
336120	Heavy duty truck manufacturing .....	—	4	2	306	10 315	171	394	5 221	41 083	96 416	150 734	2 251
3362	Motor vehicle body and trailer manufacturing .....	—	46	19	2 779	96 298	1 996	3 754	64 663	195 392	516 096	726 973	10 621
33621	Motor vehicle body and trailer manufacturing .....	—	46	19	2 779	96 298	1 996	3 754	64 663	195 392	516 096	726 973	10 621
336211	Motor vehicle body manufacturing .....	—	20	9	1 780	65 765	1 334	2 540	45 969	141 150	438 625	593 888	7 197
336212	Truck trailer manufacturing ..	2	8	5	517	17 138	321	622	10 993	28 683	45 912	75 298	D
336214	Travel trailer and camper manufacturing .....	2	17	5	e	D	D	D	D	D	D	D	1 639
3363	Motor vehicle parts manufacturing .....	1	73	19	h	D	D	D	D	D	D	D	17 208
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	19	2	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	17	2	543	23 490	466	1 018	19 582	48 299	30 895	78 250	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	5	12	4	g	D	D	D	D	D	D	D	2 671
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	5	11	4	1 020	27 445	801	1 672	18 351	50 216	61 442	109 064	D
33634	Motor vehicle brake system manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	7	3	434	14 788	193	392	6 801	45 626	68 602	119 050	1 296
336350	Motor vehicle transmission and power train parts manufacturing .....	—	7	3	434	14 788	193	392	6 801	45 626	68 602	119 050	1 296
33637	Motor vehicle metal stamping ..	—	4	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	4	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	2	20	4	473	15 268	368	736	10 094	26 469	45 702	72 247	2 133
336399	All other motor vehicle parts manufacturing .....	2	20	4	473	15 268	368	736	10 094	26 469	45 702	72 247	2 133
3364	Aerospace product and parts manufacturing .....	1	21	8	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	1	21	8	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	—	3	2	137	6 431	105	203	4 628	14 310	14 432	28 467	335
336413	Other aircraft parts and auxiliary equipment manufacturing .....	4	14	4	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock manufacturing .....	3	5	2	229	11 806	101	233	4 623	15 424	10 102	28 135	544
33651	Railroad rolling stock manufacturing .....	3	5	2	229	11 806	101	233	4 623	15 424	10 102	28 135	544
336510	Railroad rolling stock manufacturing .....	3	5	2	229	11 806	101	233	4 623	15 424	10 102	28 135	544
3366	Ship and boat building .....	—	25	17	2 744	79 520	2 176	4 240	61 644	227 656	355 580	583 236	12 526
33661	Ship and boat building .....	—	25	17	2 744	79 520	2 176	4 240	61 644	227 656	355 580	583 236	12 526
336611	Ship building and repairing ..	—	3	1	c	D	D	D	D	D	D	D	D
336612	Boat building .....	—	22	16	h	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	27	8	3 439	109 042	2 668	4 600	72 561	850 148	1 135 750	1 958 053	30 266
33699	Other transportation equipment manufacturing .....	—	27	8	3 439	109 042	2 668	4 600	72 561	850 148	1 135 750	1 958 053	30 266
336999	All other transportation equipment manufacturing ..	—	20	7	3 400	107 547	2 638	4 546	71 499	846 820	1 133 037	1 952 105	30 065
337	Furniture and related product manufacturing .....	2	615	127	12 520	408 972	9 244	16 994	255 736	932 319	604 433	1 537 516	28 481

**Table 1. Industry Statistics for the State: 2002—Con.**

[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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>MINNESOTA—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	467	61	7 498	227 830	5 796	10 763	152 005	541 238	322 523	865 761	16 426
33711	Wood kitchen cabinet and countertop manufacturing ....	1	327	33	4 255	124 996	3 355	6 315	86 539	301 079	161 252	463 777	9 941
337110	Wood kitchen cabinet and countertop manufacturing ..	1	327	33	4 255	124 996	3 355	6 315	86 539	301 079	161 252	463 777	9 941
33712	Household and institutional furniture manufacturing .....	3	140	28	3 243	102 834	2 441	4 448	65 466	240 159	161 271	401 984	6 485
337121	Upholstered household furniture manufacturing ....	—	39	7	712	17 356	583	1 083	12 863	47 727	50 722	98 445	1 551
337122	Nonupholstered wood household furniture manufacturing .....	2	76	7	594	13 667	498	910	10 475	27 844	20 439	49 475	1 173
337124	Metal household furniture manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	5	17	11	1 410	55 309	968	1 701	31 132	128 883	65 737	193 679	2 322
3372	Office furniture (including fixtures) manufacturing .....	1	131	61	4 528	166 253	3 110	5 685	94 605	348 605	235 493	583 066	11 067
33721	Office furniture (including fixtures) manufacturing .....	1	131	61	4 528	166 253	3 110	5 685	94 605	348 605	235 493	583 066	11 067
337211	Wood office furniture manufacturing .....	1	18	8	531	16 925	390	769	10 998	39 005	25 967	65 241	1 124
337212	Custom architectural woodwork and millwork manufacturing .....	—	41	16	1 064	42 981	731	1 457	24 389	90 081	57 347	148 739	2 336
337214	Office furniture (except wood) manufacturing .....	—	13	7	598	23 487	407	777	12 829	55 048	39 322	95 424	813
337215	Showcase, partition, shelving, and locker manufacturing .....	3	59	30	2 335	82 860	1 582	2 682	46 389	164 471	112 857	273 662	6 794
3379	Other furniture related product manufacturing .....	1	17	5	494	14 889	338	546	9 126	42 476	46 417	88 689	988
33791	Mattress manufacturing .....	1	12	3	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing ....	1	12	3	e	D	D	D	D	D	D	D	D
33792	Blind and shade manufacturing .....	—	5	2	c	D	D	D	D	D	D	D	D
337920	Blind and shade manufacturing .....	—	5	2	c	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	'741	'183	'20 717	'873 710	'11 787	'23 189	'348 973	'1 941 172	'990 307	'2 939 736	'126 461
3391	Medical equipment and supplies manufacturing .....	2	'297	'97	'13 095	'617 735	'6 738	'13 530	'214 908	'1 373 283	'599 940	'1 978 539	'96 993
33911	Medical equipment and supplies manufacturing .....	2	'297	'97	'13 095	'617 735	'6 738	'13 530	'214 908	'1 373 283	'599 940	'1 978 539	'96 993
339111	Laboratory apparatus and furniture manufacturing ....	—	8	5	503	22 569	258	567	8 352	42 281	27 369	70 345	3 323
339112	Surgical and medical instrument manufacturing ..	2	65	33	6 611	353 815	2 746	5 594	94 570	723 208	304 269	1 040 282	63 998
339113	Surgical appliance and supplies manufacturing ....	2	'52	'22	'3 134	'148 219	'1 643	'3 263	'49 468	'391 003	'175 375	'557 258	'20 105
339114	Dental equipment and supplies manufacturing ....	7	19	2	192	6 813	137	193	2 937	12 712	6 314	18 612	496
339115	Ophthalmic goods manufacturing .....	4	16	12	1 103	35 925	790	1 662	22 541	118 633	67 943	188 380	5 775
339116	Dental laboratories .....	2	137	23	1 552	50 394	1 164	2 251	37 040	85 446	18 670	103 662	3 296
3399	Other miscellaneous manufacturing .....	2	'444	'86	'7 622	'255 975	'5 049	'9 659	'134 065	'567 889	'390 367	'961 197	'29 468
33991	Jewelry and silverware manufacturing .....	2	38	4	302	8 637	186	349	4 145	22 148	21 980	43 880	505
339911	Jewelry (except costume) manufacturing .....	1	23	3	204	6 423	126	232	3 096	18 062	16 082	33 917	349
33992	Sporting and athletic goods manufacturing .....	1	74	14	1 910	62 392	1 278	2 535	33 764	152 091	116 738	269 737	12 013
339920	Sporting and athletic goods manufacturing .....	1	74	14	1 910	62 392	1 278	2 535	33 764	152 091	116 738	269 737	12 013
33993	Doll, toy, and game manufacturing .....	7	21	1	117	3 513	76	139	1 757	14 326	9 736	24 143	353
33995	Sign manufacturing .....	'3	'135	'32	'2 473	'89 588	'1 499	'2 863	'43 327	'177 201	'116 048	'292 982	'5 701
339950	Sign manufacturing .....	'3	'135	'32	'2 473	'89 588	'1 499	'2 863	'43 327	'177 201	'116 048	'292 982	'5 701
33999	All other miscellaneous manufacturing .....	2	'167	'35	'2 769	'90 467	'1 978	'3 722	'50 458	'199 045	'124 448	'326 006	'10 827
339991	Gasket, packing, and sealing device manufacturing .....	1	20	11	938	34 374	705	1 454	21 171	87 133	40 162	126 730	6 486
339992	Musical instrument manufacturing .....	4	20	1	111	2 919	81	157	1 860	3 829	2 078	6 032	123
339994	Broom, brush, and mop manufacturing .....	9	3	1	c	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	1	'117	'20	'1 450	'45 076	'965	'1 636	'22 553	'87 292	'67 976	'158 021	D

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries 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.

## Table 1. Industry Statistics for the State: 2002—Con.

<sup>4</sup>Number 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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FARGO-WAHPETON, ND-MN COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	262	89	10 240	334 705	7 577	14 906	207 195	1 060 974	1 293 017	2 387 095	68 152
311	Food manufacturing .....	-	38	17	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	-	7	6	f	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
311211	Flour milling .....	-	3	2	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing ...	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	13	3	e	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	10	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	6	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	15	9	g	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	-	7	6	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	7	6	f	D	D	D	D	D	D	D	D
321219	Reconstituted wood product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	8	3	e	D	D	D	D	D	D	D	D
32191	Millwork .....	-	3	2	e	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	28	7	e	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	28	7	e	D	D	D	D	D	D	D	D
32311	Printing .....	-	28	7	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	13	6	386	11 184	285	447	7 097	21 155	12 045	33 214	731
326	Plastics and rubber products manufacturing .....	1	12	6	587	18 380	468	906	12 794	51 833	58 423	108 146	2 445
3261	Plastics product manufacturing ..	-	10	6	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
326122	Plastics pipe and pipe fitting manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	11	3	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	4	42	13	g	D	D	D	D	D	D	D	8 227
3323	Architectural and structural metals manufacturing .....	3	15	7	f	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	4	7	6	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	6	5	4	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	29	11	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	17	8	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	13	5	g	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing ..	-	13	5	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FARGO-WAHPETON, ND-MN COMBINED STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media.....	-	1	1	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	-	1	1	f	D	D	D	D	D	D	D	D
334613	Magnetic and optical recording media manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	15	6	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	1	6	3	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	27	4	e	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	23	4	e	D	D	D	D	D	D	D	D
<b>Fargo, ND-MN Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	226	77	8 122	257 003	5 868	11 221	150 182	709 502	948 960	1 671 416	44 043
311	Food manufacturing .....	1	30	14	1 599	49 135	1 123	2 300	32 280	178 566	287 798	451 440	10 219
3112	Grain and oilseed milling .....	-	5	5	427	12 885	306	564	7 103	35 193	112 370	143 885	3 313
31121	Flour milling and malt manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
311211	Flour milling .....	-	2	2	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	11	3	331	9 485	149	309	4 370	25 135	10 119	35 254	D
31181	Bread and bakery product manufacturing .....	-	8	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	6	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	11	6	612	14 994	545	960	11 829	52 120	68 976	120 953	1 100
3219	Other wood product manufacturing .....	-	8	3	e	D	D	D	D	D	D	D	D
32191	Millwork .....	-	3	2	e	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	26	7	468	13 121	344	553	8 263	24 707	14 123	38 776	839
3231	Printing and related support activities .....	-	26	7	468	13 121	344	553	8 263	24 707	14 123	38 776	839
32311	Printing .....	-	26	7	468	13 121	344	553	8 263	24 707	14 123	38 776	839
323110	Commercial lithographic printing .....	-	13	6	386	11 184	285	447	7 097	21 155	12 045	33 214	731
326	Plastics and rubber products manufacturing .....	1	12	6	587	18 380	468	906	12 794	51 833	58 423	108 146	2 445
3261	Plastics product manufacturing ..	-	10	6	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
326122	Plastics pipe and pipe fitting manufacturing .....	-	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FARGO-WAHPETON, ND-MN COMBINED STATISTICAL AREA—Con.</b>													
<b>Fargo, ND-MN Metropolitan Statistical Area—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	-	10	3	409	10 534	373	740	9 024	33 649	37 964	70 211	D
3272	Glass and glass product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	34	11	916	32 039	688	1 408	20 531	62 235	82 439	144 711	7 854
3323	Architectural and structural metals manufacturing .....	3	14	7	669	23 574	502	1 067	15 029	43 507	69 677	113 055	7 185
33231	Plate work and fabricated structural product manufacturing .....	4	7	6	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	6	5	4	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	23	9	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	14	6	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	10	3	973	33 884	673	1 255	16 774	144 185	243 292	398 865	4 491
333111	Farm machinery and equipment manufacturing ..	-	10	3	973	33 884	673	1 255	16 774	144 185	243 292	398 865	4 491
334	Computer and electronic product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	13	6	721	22 735	514	931	11 673	38 281	48 014	105 786	2 638
3363	Motor vehicle parts manufacturing .....	1	6	3	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	26	4	350	9 166	240	402	5 329	18 665	14 584	33 237	677
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	22	4	295	7 794	196	342	4 502	15 740	12 483	28 223	D
<b>Wahpeton, ND-MN Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	-	36	12	2 118	77 702	1 709	3 685	57 013	351 472	344 057	715 679	24 109
311	Food manufacturing .....	-	8	3	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing ...	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	-	4	3	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
321219	Reconstituted wood product manufacturing .....	-	3	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>FARGO-WAHPETON, ND-MN COMBINED STATISTICAL AREA—Con.</b>													
<b>Wahpeton, ND-MN Micropolitan Statistical Area—Con.</b>													
334	Computer and electronic product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	
3346	Manufacturing and reproducing magnetic and optical media .....	—	1	1	f	D	D	D	D	D	D	D	
33461	Manufacturing and reproducing magnetic and optical media .....	—	1	1	f	D	D	D	D	D	D	D	
334613	Magnetic and optical recording media manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	'5 768	'1 938	'242 768	'10 308 391	'155 419	'306 634	'5 389 262	'27 169 001	'25 369 106	'52 672 600	'1 671 233
311	Food manufacturing .....	1	397	159	21 069	713 887	14 909	30 352	453 727	2 731 388	3 669 616	6 375 411	142 982
3111	Animal food manufacturing .....	4	33	15	f	D	D	D	D	D	D	D	D
31111	Animal food manufacturing .....	4	33	15	f	D	D	D	D	D	D	D	D
311119	Other animal food manufacturing .....	5	30	14	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	1	21	15	g	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	2	12	10	f	D	D	D	D	D	D	D	D
311211	Flour milling .....	—	9	8	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	—	24	4	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate .....	1	12	2	e	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate .....	1	12	2	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	—	10	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	10	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	3	23	18	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing .....	4	9	9	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	4	8	8	1 299	43 866	803	1 452	19 194	131 407	98 291	229 698	D
31142	Fruit and vegetable canning, pickling, and drying .....	2	14	9	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	3	7	5	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	4	2	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	37	22	h	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	35	21	h	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	17	9	g	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	—	15	9	g	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	1	48	16	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	1	48	16	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	1	28	5	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	3	10	4	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	5	3	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	1	138	45	h	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	1	122	40	h	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	4	77	17	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	1	36	16	g	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	9	7	1 301	45 941	1 058	2 234	35 771	195 633	134 027	330 540	6 985

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
311	Food manufacturing—Con.												
3119	Other food manufacturing .....	—	72	24	h	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing .....	—	52	20	h	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	—	17	8	551	16 664	429	815	12 322	56 503	41 612	97 896	2 423
311999	All other miscellaneous food manufacturing .....	—	35	12	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	17	7	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	17	7	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	—	8	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 .....	4	22	6	e	D	D	D	D	D	D	D	D
3132	Fabric mills .....	3	6	4	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	1	'92	'12	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	2	30	2	e	D	D	D	D	D	D	D	D
31412	Curtain and linen mills .....	2	28	2	e	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	1	'62	'10	f	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills .....	2	22	4	e	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	'1	'40	'6	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	'1	'38	'6	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	2	'89	6	f	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	2	74	4	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	16	4	g	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	—	4	3	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	—	4	3	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	—	4	3	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	—	3	1	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	3	1	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	178	51	i	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	D
321214	Truss manufacturing .....	—	10	8	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	—	145	39	i	D	D	D	D	D	D	D	D
32191	Millwork .....	—	67	23	i	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	—	29	12	i	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing .....	—	8	4	e	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	2	30	7	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	1	39	7	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing .....	1	39	7	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	1	39	9	f	D	D	D	D	D	D	D	D
321992	Prefabricated wood building manufacturing .....	—	8	2	e	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product manufacturing .....	1	29	7	e	D	D	D	D	D	D	D	D

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<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
322	Paper manufacturing .....	—	105	68	j	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	5	4	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	2	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	2	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	3	3	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	3	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	100	64	j	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	51	37	h	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	—	34	27	h	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing .....	—	12	10	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	—	22	13	h	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	—	12	8	h	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	2	19	11	1 831	67 378	1 325	2 837	41 143	116 033	113 853	232 294	D
322231	Die-cut paper and paperboard office supplies manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing .....	4	11	7	761	26 440	603	1 234	20 807	49 858	51 202	101 422	2 377
323	Printing and related support activities .....	1	720	205	j	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	1	720	205	j	D	D	D	D	D	D	D	D
32311	Printing .....	1	643	180	j	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	1	292	103	j	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing .....	—	26	16	1 077	43 741	627	1 261	22 798	99 180	88 663	189 038	D
323113	Commercial screen printing ..	1	82	18	g	D	D	D	D	D	D	D	D
323114	Quick printing .....	2	135	7	f	D	D	D	D	D	D	D	D
323115	Digital printing .....	—	30	4	e	D	D	D	D	D	D	D	D
323116	Manifold business forms printing .....	1	14	11	954	30 873	721	1 471	20 645	84 276	43 123	128 566	1 785
323118	Blankbook, looseleaf binders, and devices manufacturing ..	—	6	4	f	D	D	D	D	D	D	D	D
323119	Other commercial printing ..	2	46	13	g	D	D	D	D	D	D	D	D
32312	Support activities for printing ..	2	77	25	1 556	69 000	1 131	2 300	44 191	134 889	29 439	162 813	4 708
323121	Tradebinding and related work .....	2	36	11	f	D	D	D	D	D	D	D	D
323122	Prepress services .....	1	41	14	f	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing .....	—	21	11	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	—	21	11	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	—	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	2	2	g	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	15	8	f	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing ..	—	6	4	520	26 270	341	760	16 410	81 257	140 923	215 125	37 140
325	Chemical manufacturing .....	1	182	70	i	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	5	15	7	345	17 417	157	332	6 467	46 683	57 477	104 422	3 335
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	10	3	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	—	10	3	e	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing .....	—	10	3	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	2	29	10	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	2	29	10	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	10	5	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	6	6	3	292	15 556	133	252	6 236	58 821	62 491	125 106	3 138
3255	Paint, coating, and adhesive manufacturing .....	5	24	13	f	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	6	16	8	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	6	16	8	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
325 3256	Chemical manufacturing—Con. Soap, cleaning compound, and toilet preparation manufacturing . . .	1	53	15	g	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing . . . . .	2	35	8	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing . . . . .	—	14	4	e	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing . . . . .	—	18	7	996	42 655	590	1 135	19 528	226 754	145 891	366 192	5 537
325620	Toilet preparation manufacturing . . . . .	—	18	7	996	42 655	590	1 135	19 528	226 754	145 891	366 192	5 537
3259	Other chemical product and preparation manufacturing . . . . .	—	43	20	g	D	D	D	D	D	D	D	D
32591	Printing ink manufacturing . . . . .	2	11	7	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing . . . . .	2	11	7	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing . . .	—	30	12	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing . .	—	21	9	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing . . . . .	2	290	142	j	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing . . .	2	256	129	j	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing . . . . .	1	29	17	g	D	D	D	D	D	D	D	D
326112	Plastics packaging film and sheet (including laminated) manufacturing . . . . .	4	6	3	289	14 312	184	376	8 185	27 452	29 853	57 234	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing . . . . .	—	16	10	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing . . . . .	—	17	9	g	D	D	D	D	D	D	D	D
326121	Un laminated plastics profile shape manufacturing . . . . .	—	14	8	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing . . . . .	6	10	8	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing . . . . .	6	10	8	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	2	181	89	j	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	2	174	88	j	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing . . .	4	34	13	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing . . . . .	4	26	9	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use . . . . .	3	12	6	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing . . . . .	4	14	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing . . . . .	1	177	58	i	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing . . . . .	—	24	5	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing . . . . .	—	24	5	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass . .	—	20	4	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing . . . . .	1	95	40	h	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing . . . . .	1	53	21	g	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing . . . . .	1	53	21	g	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, and block manufacturing . . . . .	—	20	11	f	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing . . . . .	—	14	6	e	D	D	D	D	D	D	D	D
327332	Concrete pipe manufacturing . . . . .	—	6	5	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing . . . . .	1	22	8	g	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing . . . . .	1	22	8	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
327	Nonmetallic mineral product manufacturing—Con.												
3279	Other nonmetallic mineral product manufacturing .....	-	37	11	g	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	35	11	g	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing .....	-	27	9	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	'63	'35	i	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	3	1	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	4	2	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	3	2	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	3	2	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	-	3	3	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	3	3	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	1	14	2	e	D	D	D	D	D	D	D	D
3315	Foundries .....	-	'39	'27	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	13	8	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	9	5	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ...	-	'26	'19	'2 650	'90 973	'1 984	'4 149	'63 451	'220 887	'122 268	'343 971	'10 532
331521	Aluminum die-casting foundries .....	-	'8	'7	g	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries .....	-	8	7	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	-	7	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	1 187	362	k	D	D	D	D	D	D	D	D
3321	Forging and stamping .....	-	71	40	h	D	D	D	D	D	D	D	D
33211	Forging and stamping .....	-	71	40	h	D	D	D	D	D	D	D	D
332116	Metal stamping .....	-	60	36	h	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	-	31	11	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	31	11	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	26	9	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	-	192	68	h	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	-	71	23	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	-	44	13	f	D	D	D	D	D	D	D	D
332313	Plate work manufacturing ...	-	20	9	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	-	121	45	h	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	-	10	5	e	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	1	75	30	g	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	-	36	10	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing .....	-	24	16	g	D	D	D	D	D	D	D	D
33241	Power boiler and heat exchanger manufacturing ....	-	5	2	e	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing ..	-	5	2	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing .....	3	11	8	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing .....	3	11	8	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>											
332	Fabricated metal product manufacturing—Con.											
3324	Boiler, tank, and shipping container manufacturing—Con.											
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	8	6	f	D	D	D	D	D	D	D
332431	Metal can manufacturing .....	—	5	5	f	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing .....	2	34	14	f	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing .....	2	34	14	f	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	2	30	11	f	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	'557	'119	i	D	D	D	D	D	D	D
33271	Machine shops .....	1	'469	'80	i	D	D	D	D	D	D	D
332710	Machine shops .....	1	'469	'80	i	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing .....	2	88	39	h	D	D	D	D	D	D	D
332721	Precision turned product manufacturing .....	1	79	34	g	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	9	5	e	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	'143	'49	h	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	1	'143	'49	h	D	D	D	D	D	D	D
332811	Metal heat treating .....	—	11	7	332	13 459	273	576	9 885	27 583	5 277	32 810
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	'67	'19	g	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	65	23	g	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	—	121	43	i	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	—	25	14	g	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	—	7	6	g	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	15	7	g	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	96	29	h	D	D	D	D	D	D	D
332992	Small arms ammunition manufacturing .....	—	1	1	f	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing ..	—	1	1	g	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	1	69	19	g	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	'604	'217	'26 195	'1 195 868	'15 077	'29 696	'548 137	'2 671 297	'2 238 443	'4 976 545
3331	Agriculture, construction, and mining machinery manufacturing .....	—	42	13	g	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	1	30	9	f	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing ..	1	27	8	f	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	—	10	4	f	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	—	10	4	f	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	1	86	35	h	D	D	D	D	D	D	D
33321	Sawmill and woodworking machinery manufacturing ....	—	10	6	f	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing ..	—	10	6	f	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	1	67	26	h	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	3	14	3	e	D	D	D	D	D	D	1 485
333294	Food product machinery manufacturing .....	1	14	9	f	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	—	6	5	738	48 247	246	536	8 323	84 968	71 438	152 849
333298	All other industrial machinery manufacturing .....	3	31	8	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	1	56	23	h	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	1	56	23	h	D	D	D	D	D	D	D	D
333311	Automatic vending machine manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
333313	Office machinery manufacturing .....	—	3	2	336	15 899	169	364	6 380	24 781	23 246	48 744	D
333315	Photographic and photocopying equipment manufacturing .....	—	10	4	449	21 979	125	258	4 158	71 949	107 915	181 823	518
333319	Other commercial and service industry machinery manufacturing .....	1	35	15	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	'51	'29	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	'51	'29	h	D	D	D	D	D	D	D	D
333412	Industrial and commercial fan and blower manufacturing ..	—	8	5	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	'23	'18	h	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	1	212	45	h	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	1	212	45	h	D	D	D	D	D	D	D	D
333511	Industrial mold manufacturing .....	1	91	11	f	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	67	20	g	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing ..	2	33	2	e	D	D	D	D	D	D	D	D
333518	Other metalworking machinery manufacturing ..	—	10	5	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	15	12	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	15	12	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	—	5	5	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	1	5	4	347	14 269	191	440	5 961	33 270	17 021	48 820	1 631
333618	Other engine equipment manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	142	60	i	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing .....	—	14	7	g	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	6	4	f	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	2	'32	'11	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	2	'13	'4	'288	'11 199	'127	'256	'3 375	'18 177	'17 163	'35 269	'719
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	3	8	4	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	'96	'42	i	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	—	'27	'13	'1 858	'79 610	'671	'1 420	'25 621	'128 209	'96 698	'223 985	'7 287
333994	Industrial process furnace and oven manufacturing ...	1	5	3	e	D	D	D	D	D	D	D	D
333995	Fluid power cylinder and actuator manufacturing ....	—	9	6	418	18 647	243	393	7 918	31 278	29 913	63 745	D
333996	Fluid power pump and motor manufacturing .....	—	5	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.**

[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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing—Con.												
33399	All other general purpose machinery manufacturing—Con.												
333999	All other miscellaneous general purpose machinery manufacturing .....	1	46	16	h	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	349	169	k	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	49	24	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	49	24	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	3	12	5	e	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	2	9	4	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	—	25	14	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	24	10	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	3	10	5	f	D	D	D	D	D	D	D	2 511
334210	Telephone apparatus manufacturing .....	3	10	5	f	D	D	D	D	D	D	D	2 511
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	4	9	2	e	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	4	9	2	e	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	—	5	3	816	38 344	364	744	11 446	132 893	80 157	211 502	2 090
334290	Other communications equipment manufacturing ..	—	5	3	816	38 344	364	744	11 446	132 893	80 157	211 502	2 090
3343	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	108	52	i	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	1	108	52	i	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	1	37	21	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	1	17	6	1 762	113 231	1 037	1 951	53 313	234 658	107 002	350 301	30 859
334417	Electronic connector manufacturing .....	—	9	6	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	14	8	1 626	67 744	1 023	2 088	29 898	252 828	218 786	466 900	14 478
334419	Other electronic component manufacturing .....	1	24	9	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	138	70	j	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	138	70	j	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	40	26	i	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	8	6	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	11	4	g	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	—	26	10	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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>											
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.											
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	2	17	7	f	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	10	6	g	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	—	20	10	h	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	4	19	8	f	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ..	4	19	8	f	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	6	10	5	f	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	112	51	i	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing .....	—	9	2	e	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	—	9	2	e	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	—	5	2	e	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	3	2	g	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	—	2	2	g	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	—	1	1	g	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	59	24	h	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	59	24	h	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	—	9	5	g	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing ..	3	13	6	e	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	1	29	10	f	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	41	23	h	D	D	D	D	D	D	D
33593	Wiring device manufacturing ..	—	11	8	g	D	D	D	D	D	D	7 624
335931	Current-carrying wiring device manufacturing .....	—	8	6	f	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	—	3	2	g	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	2	21	11	g	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	2	20	11	g	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	116	41	i	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	—	3	2	g	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	2	1	g	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	—	23	9	1 377	45 464	947	1 599	31 177	120 424	187 677	310 598
33621	Motor vehicle body and trailer manufacturing .....	—	23	9	1 377	45 464	947	1 599	31 177	120 424	187 677	310 598
336211	Motor vehicle body manufacturing .....	—	12	5	f	D	D	D	D	D	D	D
336212	Truck trailer manufacturing ..	—	3	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing .....	3	'47	'10	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	8	7	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	8	6	2	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	11	6	e	D	D	D	D	D	D	D	4 596
33641	Aerospace product and parts manufacturing .....	—	11	6	e	D	D	D	D	D	D	D	4 596
3366	Ship and boat building .....	—	12	8	e	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	—	12	8	e	D	D	D	D	D	D	D	D
336612	Boat building .....	—	11	7	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	'17	'5	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	'17	'5	e	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	—	'10	'3	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	450	103	i	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	326	46	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	1	234	26	h	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	1	234	26	h	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	1	92	20	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing ....	—	26	6	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	1	46	4	e	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	3	14	9	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	2	109	52	h	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	2	109	52	h	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing .....	—	14	7	e	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing .....	—	37	13	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	—	9	5	388	16 772	247	471	8 164	40 707	29 830	70 883	659
337215	Showcase, partition, shelving, and locker manufacturing .....	3	49	27	g	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing .....	1	15	5	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	'581	'161	j	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	2	'245	'89	j	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	2	'245	'89	j	D	D	D	D	D	D	D	D
339111	Laboratory apparatus and furniture manufacturing ....	—	8	5	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	3	60	30	6 420	346 283	2 635	5 384	91 496	702 752	300 514	1 017 403	D
339113	Surgical appliance and supplies manufacturing ....	2	'47	'21	h	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	4	15	11	g	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	2	98	20	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
339	Miscellaneous manufacturing—Con.												
3399	Other miscellaneous manufacturing .....	2	'336	'72	i	D	D	D	D	D	D	D	D
33991	Jewelry and silverware manufacturing .....	3	32	4	e	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	—	'44	9	g	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	—	'44	9	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	'3	'114	'30	g	D	D	D	D	D	D	D	D
339950	Sign manufacturing .....	'3	'114	'30	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	2	'121	'28	g	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing .....	1	15	9	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	'2	'85	'17	g	D	D	D	D	D	D	D	D
<b>Faribault-Northfield, MN Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	85	23	4 647	170 708	3 579	7 007	126 333	566 649	562 359	1 107 274	30 648
311	Food manufacturing .....	—	15	5	2 090	79 931	1 559	3 280	61 127	350 263	339 520	667 073	20 984
3112	Grain and oilseed milling .....	—	4	2	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	3	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	6	3	344	13 798	253	531	9 492	39 133	42 147	80 375	D
3272	Glass and glass product manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	—	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	12	5	732	26 567	635	1 081	22 138	44 715	83 946	129 535	1 208
3323	Architectural and structural metals manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	15	3	907	32 380	689	1 319	21 836	83 024	56 652	140 840	2 309
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>Hutchinson, MN Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	73	32	7 339	284 719	5 464	10 856	182 507	805 249	455 866	1 271 733	141 874
311	Food manufacturing .....	—	10	5	622	19 261	526	1 189	14 443	136 982	108 643	243 652	12 323
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	1	1	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	—	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.**

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
<b>Hutchinson, MN Micropolitan Statistical Area—Con.</b>													
321	Wood product manufacturing .....	-	5	3	627	24 894	356	718	13 079	27 400	30 557	58 684	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
321214	Truss manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	216
32199	All other wood product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	-	2	2	g	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	11	4	312	14 661	227	503	7 667	15 232	24 879	40 033	D
3332	Industrial machinery manufacturing .....	2	3	3	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	2	6	4	2 404	96 844	1 653	3 565	56 660	45 692	19 161	66 523	D
3341	Computer and peripheral equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	8	4	2	e	D	D	D	D	D	D	D	167
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	8	4	2	e	D	D	D	D	D	D	D	167
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	9	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	3	2	407	13 482	257	214	7 524	21 228	8 494	29 776	D
3353	Electrical equipment manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	5	3	339	14 593	255	501	8 798	30 739	14 621	45 539	D
<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	'5 195	'1 738	'209 774	'9 115 654	'130 366	'257 129	'4 577 618	'23 870 248	'22 149 189	'46 168 209	'1 382 217
311	Food manufacturing .....	1	319	125	14 812	512 332	10 164	20 432	308 756	1 925 872	2 372 398	4 303 143	95 858
3111	Animal food manufacturing .....	5	21	11	f	D	D	D	D	D	D	D	D
31111	Animal food manufacturing ....	5	21	11	f	D	D	D	D	D	D	D	D
311119	Other animal food manufacturing .....	6	18	10	f	D	D	D	D	D	D	D	3 356
3112	Grain and oilseed milling .....	2	14	11	575	24 005	466	919	17 188	89 792	305 456	394 273	D
31121	Flour milling and malt manufacturing .....	2	10	9	476	20 890	384	773	15 080	86 708	290 837	374 552	7 347
311211	Flour milling .....	-	8	8	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	24	4	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ....	1	12	2	e	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	1	12	2	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	10	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	-	10	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
311	Food manufacturing—Con.												
3114	Fruit and vegetable preserving and specialty food manufacturing .....	4	18	14	1 818	61 745	1 266	2 389	33 252	201 043	174 337	375 002	11 029
31141	Frozen food manufacturing ....	4	8	8	1 299	43 866	803	1 452	19 194	131 407	98 291	229 698	D
311412	Frozen specialty food manufacturing .....	4	8	8	1 299	43 866	803	1 452	19 194	131 407	98 291	229 698	D
31142	Fruit and vegetable canning, pickling, and drying .....	4	10	6	519	17 879	463	937	14 058	69 636	76 046	145 304	D
311421	Fruit and vegetable canning .	9	5	3	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	26	15	2 362	110 908	1 441	3 053	55 725	444 193	826 736	1 271 777	21 381
31151	Dairy product (except frozen) manufacturing .....	—	24	14	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	—	13	7	955	41 198	596	1 347	24 302	125 233	325 321	449 820	7 450
311513	Cheese manufacturing .....	1	9	5	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	29	9	1 069	36 860	805	1 749	23 589	133 051	291 032	427 393	6 806
31161	Animal slaughtering and processing .....	2	29	9	1 069	36 860	805	1 749	23 589	133 051	291 032	427 393	6 806
311611	Animal (except poultry) slaughtering .....	—	16	2	403	12 642	323	740	9 799	21 444	155 572	176 848	D
311612	Meat processed from carcasses .....	3	7	3	511	17 986	391	804	10 616	86 319	116 893	206 670	3 589
3118	Bakeries and tortilla manufacturing .....	1	121	40	3 933	111 765	2 545	4 818	74 024	354 205	227 523	581 096	13 353
31181	Bread and bakery product manufacturing .....	1	106	35	h	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	4	64	14	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	1	33	14	1 565	44 774	860	1 525	25 704	105 571	62 241	166 430	5 032
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	9	7	1 301	45 941	1 058	2 234	35 771	195 633	134 027	330 540	6 985
3119	Other food manufacturing .....	—	65	21	3 304	106 545	2 397	4 909	64 954	522 462	237 892	760 616	21 536
31191	Snack food manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	45	17	2 445	76 582	2 003	4 155	53 557	350 397	156 280	506 365	18 796
311991	Perishable prepared food manufacturing .....	—	17	8	551	16 664	429	815	12 322	56 503	41 612	97 896	2 423
311999	All other miscellaneous food manufacturing .....	—	28	9	1 894	59 918	1 574	3 340	41 235	293 894	114 668	408 469	16 373
312	Beverage and tobacco product manufacturing .....	—	14	5	847	38 898	461	949	12 713	69 467	332 890	403 450	D
3121	Beverage manufacturing .....	—	14	5	847	38 898	461	949	12 713	69 467	332 890	403 450	D
31211	Soft drink and ice manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	—	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills .....	2	21	5	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	1	79	11	900	26 517	636	1 234	14 105	58 749	50 360	108 997	D
3141	Textile furnishings mills .....	2	26	2	263	7 198	204	399	4 875	17 841	11 218	28 662	D
31412	Curtain and linen mills .....	2	24	2	e	D	D	D	D	D	D	D	217
3149	Other textile product mills .....	1	53	9	637	19 319	432	835	9 230	40 908	39 142	80 335	D
31499	All other textile product mills ...	—	39	5	405	11 576	275	528	6 227	26 126	25 750	51 997	D
314999	All other miscellaneous textile product mills .....	—	37	5	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	1	78	4	563	14 992	450	788	10 564	48 436	23 816	72 847	1 049
3152	Cut and sew apparel manufacturing .....	2	65	3	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	13	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
321	Wood product manufacturing . . . . .	—	145	39	7 002	362 551	5 081	9 111	242 133	683 067	898 698	1 588 513	47 013
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	—	14	9	746	26 678	574	1 213	17 465	50 432	44 805	95 110	2 007
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	—	14	9	746	26 678	574	1 213	17 465	50 432	44 805	95 110	2 007
321214	Truss manufacturing . . . . .	—	9	7	619	22 311	481	1 008	14 718	42 545	33 352	75 837	D
3219	Other wood product manufacturing . . . . .	—	118	28	6 156	331 639	4 451	7 777	222 719	623 286	817 772	1 447 936	44 637
32191	Millwork . . . . .	—	58	16	5 362	306 770	3 873	6 629	207 357	575 118	768 546	1 350 710	D
321911	Wood window and door manufacturing . . . . .	—	26	10	5 064	297 705	3 676	6 262	202 629	559 846	748 272	1 315 079	D
321918	Other millwork (including flooring) . . . . .	3	27	5	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing . . . . .	2	29	5	319	8 709	248	492	5 909	17 863	17 768	35 732	D
321920	Wood container and pallet manufacturing . . . . .	2	29	5	319	8 709	248	492	5 909	17 863	17 768	35 732	D
32199	All other wood product manufacturing . . . . .	2	31	7	475	16 160	330	656	9 453	30 305	31 458	61 494	2 787
321999	All other miscellaneous wood product manufacturing . . . . .	2	23	6	405	13 945	301	597	8 694	27 079	28 170	54 996	2 611
322	Paper manufacturing . . . . .	—	98	62	8 929	345 036	6 059	12 534	218 118	832 164	950 312	1 791 521	D
3221	Pulp, paper, and paperboard mills . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing . . . . .	—	94	59	i	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing . . . . .	—	48	34	4 017	166 838	2 966	5 996	104 746	352 871	522 591	869 229	D
322211	Corrugated and solid fiber box manufacturing . . . . .	—	31	24	h	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing . . . . .	—	12	10	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing . . . . .	1	19	11	h	D	D	D	D	D	D	D	10 202
322222	Coated and laminated paper manufacturing . . . . .	1	10	7	g	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing . . . . .	2	19	11	1 831	67 378	1 325	2 837	41 143	116 033	113 853	232 294	D
322231	Die-cut paper and paperboard office supplies manufacturing . . . . .	—	6	3	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing . . . . .	4	11	7	761	26 440	603	1 234	20 807	49 858	51 202	101 422	2 377
323	Printing and related support activities . . . . .	1	670	189	19 938	798 776	13 283	25 684	464 991	'1 674 402	1 171 385	'2 834 154	97 516
3231	Printing and related support activities . . . . .	1	670	189	19 938	798 776	13 283	25 684	464 991	'1 674 402	1 171 385	'2 834 154	97 516
32311	Printing . . . . .	1	'596	164	'18 406	'730 643	'12 171	'23 423	'421 383	'1 541 297	'1 142 519	'2 673 698	'92 861
323110	Commercial lithographic printing . . . . .	1	267	92	11 833	494 222	7 957	15 310	290 944	994 574	781 153	1 763 219	65 929
323112	Commercial flexographic printing . . . . .	—	26	16	1 077	43 741	627	1 261	22 798	99 180	88 663	189 038	D
323113	Commercial screen printing . . . . .	1	76	16	1 878	56 860	1 156	2 101	29 424	131 642	90 042	222 272	4 123
323114	Quick printing . . . . .	2	125	7	733	21 916	517	865	13 622	49 953	18 554	68 354	2 751
323115	Digital printing . . . . .	—	29	4	352	13 770	221	401	7 438	34 303	11 704	45 552	1 310
323116	Manifold business forms printing . . . . .	1	'14	11	'954	'30 873	'721	'1 471	'20 645	'84 276	'43 123	'128 566	'1 785
323119	Other commercial printing . . . . .	2	45	12	1 131	52 129	638	1 313	24 869	105 425	75 644	180 805	9 365
32312	Support activities for printing . . . . .	1	'74	25	'1 532	'68 133	'1 112	'2 261	'43 608	'133 105	'28 866	'160 456	'4 655
323121	Tradebinding and related work . . . . .	2	'35	11	'635	'19 008	'505	'1 023	'13 744	'38 954	'9 096	'47 595	'1 775
323122	Prepress services . . . . .	1	39	14	897	49 125	607	1 238	29 864	94 151	19 770	112 861	2 880
324	Petroleum and coal products manufacturing . . . . .	—	21	11	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing . . . . .	—	21	11	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing . . . . .	—	15	8	f	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing . . . . .	—	6	4	520	26 270	341	760	16 410	81 257	140 923	215 125	37 140

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
325	Chemical manufacturing .....	1	171	70	6 188	310 395	3 119	6 218	122 274	1 185 314	771 641	1 947 875	106 121
3251	Basic chemical manufacturing ...	5	15	7	345	17 417	157	332	6 467	46 683	57 477	104 422	3 335
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	9	3	428	15 090	314	663	10 603	27 978	37 806	65 880	D
32521	Resin and synthetic rubber manufacturing .....	—	9	3	428	15 090	314	663	10 603	27 978	37 806	65 880	D
325211	Plastics material and resin manufacturing .....	—	9	3	428	15 090	314	663	10 603	27 978	37 806	65 880	D
3254	Pharmaceutical and medicine manufacturing .....	2	28	10	1 494	81 554	637	1 273	25 342	319 332	176 921	497 633	36 536
32541	Pharmaceutical and medicine manufacturing .....	2	28	10	1 494	81 554	637	1 273	25 342	319 332	176 921	497 633	36 536
325412	Pharmaceutical preparation manufacturing .....	—	10	5	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	6	6	3	292	15 556	133	252	6 236	58 821	62 491	125 106	3 138
3255	Paint, coating, and adhesive manufacturing .....	6	21	13	565	26 249	300	542	10 217	74 225	77 450	151 179	D
32551	Paint and coating manufacturing .....	6	14	8	e	D	D	D	D	D	D	D	825
325510	Paint and coating manufacturing .....	6	14	8	e	D	D	D	D	D	D	D	825
3256	Soap, cleaning compound, and toilet preparation manufacturing .	1	51	15	1 484	63 779	844	1 648	28 332	294 420	188 513	475 885	9 934
32561	Soap and cleaning compound manufacturing .....	2	33	8	488	21 124	254	513	8 804	67 666	42 622	109 693	4 397
325611	Soap and other detergent manufacturing .....	—	13	4	267	12 606	131	274	5 405	39 330	25 097	63 776	D
32562	Toilet preparation manufacturing .....	—	18	7	996	42 655	590	1 135	19 528	226 754	145 891	366 192	5 537
325620	Toilet preparation manufacturing .....	—	18	7	996	42 655	590	1 135	19 528	226 754	145 891	366 192	5 537
3259	Other chemical product and preparation manufacturing .....	—	40	20	1 778	103 092	813	1 653	39 927	398 896	190 281	589 473	D
32591	Printing ink manufacturing .....	2	11	7	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing .....	2	11	7	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	—	27	12	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .	—	19	9	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	271	132	14 959	511 538	11 334	22 149	322 294	1 307 987	911 832	2 215 345	107 251
3261	Plastics product manufacturing ..	2	239	120	14 105	481 412	10 777	21 060	307 091	1 241 597	863 157	2 100 513	105 063
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	1	28	16	1 595	66 091	1 167	2 357	42 246	190 921	177 559	370 827	19 962
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	4	6	3	289	14 312	184	376	8 185	27 452	29 853	57 234	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	15	9	1 067	42 683	795	1 604	27 462	141 558	125 568	269 734	D
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	—	14	7	g	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing .....	—	12	7	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	7	9	7	363	11 009	276	532	7 267	27 138	29 047	56 703	2 234
326140	Polystyrene foam product manufacturing .....	7	9	7	363	11 009	276	532	7 267	27 138	29 047	56 703	2 234
32619	Other plastics product manufacturing .....	2	169	84	10 792	357 764	8 293	16 157	227 575	940 049	541 256	1 462 485	76 946
326199	All other plastics product manufacturing .....	2	162	83	10 625	352 045	8 173	15 929	224 124	919 371	531 325	1 432 958	D
3262	Rubber product manufacturing ...	3	32	12	854	30 126	557	1 089	15 203	66 390	48 675	114 832	2 188
32629	Other rubber product manufacturing .....	4	25	9	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	3	11	6	353	12 971	234	456	6 701	26 416	16 439	42 937	779
326299	All other rubber product manufacturing .....	4	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.**

[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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	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
327	Nonmetallic mineral product manufacturing .....	1	125	39	3 786	151 531	2 691	5 586	108 129	403 382	309 368	715 151	19 470
3272	Glass and glass product manufacturing .....	—	17	3	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	17	3	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	1	13	2	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	72	34	h	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	1	41	18	1 102	44 403	682	1 382	28 926	135 539	132 479	267 760	6 251
327320	Ready-mix concrete manufacturing .....	1	41	18	1 102	44 403	682	1 382	28 926	135 539	132 479	267 760	6 251
32733	Concrete pipe, brick, and block manufacturing .....	—	13	9	708	29 713	613	1 258	25 874	98 662	49 467	147 936	5 535
327331	Concrete block and brick manufacturing .....	—	8	4	255	13 457	229	526	12 189	46 507	26 569	73 566	2 563
327332	Concrete pipe manufacturing .....	—	5	5	453	16 256	384	732	13 685	52 155	22 898	74 370	2 972
32739	Other concrete product manufacturing .....	2	18	7	g	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	2	18	7	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	'58	'34	'4 712	'185 364	'3 563	'7 387	'126 789	'427 124	'435 387	'857 904	'22 117
3311	Iron and steel mills and ferroalloy manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	2	1	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	—	4	2	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	3	2	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	3	2	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	3	3	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing .....	—	3	3	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	1	12	2	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	'37	'26	'3 181	'110 231	'2 405	'4 886	'76 509	'269 236	'140 921	'410 668	D
33151	Ferrous metal foundries .....	—	11	7	531	19 258	421	737	13 058	48 349	18 653	66 697	D
331511	Iron foundries .....	—	7	4	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	—	'26	'19	'2 650	'90 973	'1 984	'4 149	'63 451	'220 887	'122 268	'343 971	'10 532
331521	Aluminum die-casting foundries .....	—	'8	'7	g	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries .....	—	8	7	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	—	7	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	1 110	338	'28 843	'1 204 365	'19 500	'38 773	'678 135	'2 789 802	'1 893 168	'4 667 688	'140 665
3321	Forging and stamping .....	—	70	40	3 589	135 001	2 625	5 294	84 665	333 270	151 565	484 722	12 992
33211	Forging and stamping .....	—	70	40	3 589	135 001	2 625	5 294	84 665	333 270	151 565	484 722	12 992
332116	Metal stamping .....	—	60	36	h	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	—	30	11	859	39 987	424	854	14 609	109 142	123 142	238 785	D
33221	Cutlery and handtool manufacturing .....	—	30	11	859	39 987	424	854	14 609	109 142	123 142	238 785	D
332212	Hand and edge tool manufacturing .....	—	25	9	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.**

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	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing .....	—	175	59	4 250	165 191	2 964	5 672	96 660	382 934	377 516	753 747	16 527
33231	Plate work and fabricated structural product manufacturing .....	—	63	19	1 429	56 107	964	1 834	33 468	119 603	137 434	254 415	4 881
332312	Fabricated structural metal manufacturing .....	—	39	12	801	31 630	523	969	18 488	70 286	100 384	168 540	2 604
332313	Plate work manufacturing .....	—	17	6	459	19 055	323	647	11 806	37 595	24 866	62 059	D
33232	Ornamental and architectural metal products manufacturing .....	—	112	40	2 821	109 084	2 000	3 838	63 192	263 331	240 082	499 332	11 646
332321	Metal window and door manufacturing .....	—	9	4	350	12 940	272	637	8 984	31 892	55 804	86 550	D
332322	Sheet metal work manufacturing .....	1	71	27	2 048	78 027	1 456	2 670	45 212	181 681	146 622	324 261	D
332323	Ornamental and architectural metal work manufacturing ..	—	32	9	423	18 117	272	531	8 996	49 758	37 656	88 521	818
3324	Boiler, tank, and shipping container manufacturing .....	—	19	12	1 376	57 208	1 025	2 059	41 117	211 912	389 490	601 125	8 838
33241	Power boiler and heat exchanger manufacturing ....	—	4	2	e	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing ..	—	4	2	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing .....	2	8	5	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing .....	2	8	5	f	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	7	5	e	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	—	4	4	e	D	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing .....	2	32	12	577	21 619	437	834	14 629	44 905	35 288	80 498	1 053
33261	Spring and wire product manufacturing .....	2	32	12	577	21 619	437	834	14 629	44 905	35 288	80 498	1 053
332618	Other fabricated wire product manufacturing .....	3	28	9	469	17 471	356	674	11 619	36 203	28 785	65 662	993
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	'521	'115	'8 342	'344 252	'6 204	'12 282	'228 526	'689 306	'299 874	'989 971	'52 533
33271	Machine shops .....	1	'439	'78	'5 750	'240 069	'4 153	'8 091	'153 189	'481 392	'199 291	'681 002	'37 292
332710	Machine shops .....	1	'439	'78	'5 750	'240 069	'4 153	'8 091	'153 189	'481 392	'199 291	'681 002	'37 292
33272	Turned product and screw, nut, and bolt manufacturing .....	2	82	37	2 592	104 183	2 051	4 191	75 337	207 914	100 583	308 969	15 241
332721	Precision turned product manufacturing .....	1	73	32	g	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	9	5	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	'136	'48	'3 591	'117 322	'2 834	'5 646	'79 335	'226 241	'94 792	'321 203	'16 708
33281	Coating, engraving, heat treating, and allied activities ..	1	'136	'48	'3 591	'117 322	'2 834	'5 646	'79 335	'226 241	'94 792	'321 203	'16 708
332811	Metal heat treating .....	—	11	7	332	13 459	273	576	9 885	27 583	5 277	32 810	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	'64	'19	'1 214	'38 214	'945	'1 673	'24 934	'81 190	'27 775	'109 058	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	61	22	2 045	65 649	1 616	3 397	44 516	117 468	61 740	179 335	6 396
3329	Other fabricated metal product manufacturing .....	—	113	39	6 061	315 493	2 853	5 892	114 490	772 171	407 109	1 163 869	28 988
33291	Metal valve manufacturing ....	—	24	13	1 735	81 631	1 122	2 241	43 943	185 599	138 011	325 559	15 635
332911	Industrial valve manufacturing .....	—	6	5	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	15	7	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	89	26	4 326	233 862	1 731	3 651	70 547	586 572	269 098	838 310	13 353
332992	Small arms ammunition manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	1	64	16	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.**

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<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>													
333	Machinery manufacturing .....	1	'549	'198	'23 641	'1 093 193	'13 297	'26 171	'488 676	'2 446 753	'2 052 661	'4 564 715	'114 745
3331	Agriculture, construction, and mining machinery manufacturing .....	—	34	12	1 741	70 265	1 039	2 164	38 001	136 527	192 671	349 603	8 327
33311	Agricultural implement manufacturing .....	—	23	8	f	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing ..	1	20	7	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	—	9	4	829	42 084	475	950	20 790	81 989	136 410	237 740	D
333120	Construction machinery manufacturing .....	—	9	4	829	42 084	475	950	20 790	81 989	136 410	237 740	D
3332	Industrial machinery manufacturing .....	1	74	29	2 588	140 028	1 155	2 328	43 660	'229 621	'271 896	'501 340	14 505
33321	Sawmill and woodworking machinery manufacturing ....	—	8	5	e	D	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing ..	—	8	5	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	1	58	22	2 136	117 867	887	1 758	31 992	193 714	224 754	413 377	12 934
333293	Printing machinery and equipment manufacturing ..	3	14	3	e	D	D	D	D	D	D	D	1 485
333294	Food product machinery manufacturing .....	2	12	7	550	28 442	233	466	9 052	45 196	79 990	124 525	D
333295	Semiconductor machinery manufacturing .....	—	6	5	738	48 247	246	536	8 323	84 968	71 438	152 849	9 479
333298	All other industrial machinery manufacturing .....	2	24	6	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	1	55	22	3 437	162 484	1 893	3 692	66 655	602 736	450 124	1 056 767	24 932
33331	Commercial and service industry machinery manufacturing .....	1	55	22	3 437	162 484	1 893	3 692	66 655	602 736	450 124	1 056 767	24 932
333311	Automatic vending machine manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
333313	Office machinery manufacturing .....	—	3	2	336	15 899	169	364	6 380	24 781	23 246	48 744	D
333315	Photographic and photocopying equipment manufacturing .....	—	10	4	449	21 979	125	258	4 158	71 949	107 915	181 823	518
333319	Other commercial and service industry machinery manufacturing .....	1	34	14	2 241	104 704	1 348	2 611	46 581	478 797	290 060	770 050	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	'47	'26	'3 289	'134 545	'2 097	'4 038	'69 270	'257 234	'211 376	'496 303	'11 666
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	'47	'26	'3 289	'134 545	'2 097	'4 038	'69 270	'257 234	'211 376	'496 303	'11 666
333412	Industrial and commercial fan and blower manufacturing ..	—	7	4	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	'22	'17	'2 377	'102 854	'1 432	'2 881	'49 905	'152 127	'159 201	'341 333	D
3335	Metalworking machinery manufacturing .....	1	191	42	4 098	196 547	2 730	5 295	117 594	328 448	181 143	508 848	13 504
33351	Metalworking machinery manufacturing .....	1	191	42	4 098	196 547	2 730	5 295	117 594	328 448	181 143	508 848	13 504
333511	Industrial mold manufacturing .....	1	84	11	962	44 756	698	1 315	31 003	83 979	31 951	115 896	5 414
333512	Machine tool (metal cutting types) manufacturing .....	—	6	4	468	19 527	270	519	9 969	16 000	51 285	69 103	2 786
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	57	19	1 924	98 036	1 285	2 580	56 221	166 279	55 132	218 727	3 981
333515	Cutting tool and machine tool accessory manufacturing...	2	32	2	e	D	D	D	D	D	D	D	D
333518	Other metalworking machinery manufacturing ..	—	10	5	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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	<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>												
	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	14	11	867	33 749	601	1 180	19 246	74 967	91 490	165 081	3 034
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	14	11	867	33 749	601	1 180	19 246	74 967	91 490	165 081	3 034
333613	Mechanical power transmission equipment manufacturing .....	1	5	4	347	14 269	191	440	5 961	33 270	17 021	48 820	1 631
333618	Other engine equipment manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	134	56	7 621	355 575	3 782	7 474	134 250	817 220	653 961	1 486 773	38 777
33391	Pump and compressor manufacturing .....	—	14	7	g	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	6	4	f	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	2	'26	'8	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	2	'13	'4	'288	'11 199	'127	'256	'3 375	'18 177	'17 163	'35 269	'719
33399	All other general purpose machinery manufacturing ....	1	'94	'41	'5 714	'259 525	'2 759	'5 366	'92 428	'545 376	'410 622	'963 708	'31 697
333993	Packaging machinery manufacturing .....	—	'27	'13	'1 858	'79 610	'671	'1 420	'25 621	'128 209	'96 698	'223 985	'7 287
333994	Industrial process furnace and oven manufacturing ...	1	5	3	e	D	D	D	D	D	D	D	D
333995	Fluid power cylinder and actuator manufacturing ....	—	9	6	418	18 647	243	393	7 918	31 278	29 913	63 745	D
333996	Fluid power pump and motor manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	1	45	15	2 767	126 719	1 509	2 885	46 848	330 688	226 460	560 981	20 775
334	Computer and electronic product manufacturing .....	—	337	164	k	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	48	23	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	48	23	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	3	12	5	e	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	2	8	3	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	—	25	14	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	22	9	1 487	69 992	747	1 484	23 756	210 557	149 152	361 206	D
33421	Telephone apparatus manufacturing .....	3	10	5	f	D	D	D	D	D	D	D	2 511
334210	Telephone apparatus manufacturing .....	3	10	5	f	D	D	D	D	D	D	D	2 511
33429	Other communications equipment manufacturing ....	—	5	3	816	38 344	364	744	11 446	132 893	80 157	211 502	2 090
334290	Other communications equipment manufacturing ..	—	5	3	816	38 344	364	744	11 446	132 893	80 157	211 502	2 090
3343	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	105	51	7 035	313 106	4 463	8 853	150 101	827 634	528 747	1 367 826	61 674
33441	Semiconductor and other electronic component manufacturing .....	1	105	51	7 035	313 106	4 463	8 853	150 101	827 634	528 747	1 367 826	61 674
334412	Bare printed circuit board manufacturing .....	1	36	20	1 835	61 677	1 321	2 587	33 742	149 649	94 733	247 427	11 587
334413	Semiconductor and related device manufacturing .....	1	17	6	1 762	113 231	1 037	1 951	53 313	234 658	107 002	350 301	30 859
334417	Electronic connector manufacturing .....	—	9	6	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	14	8	1 626	67 744	1 023	2 088	29 898	252 828	218 786	466 900	14 478

See footnotes at end of table.

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

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	<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing—Con.												
33441	Semiconductor and other electronic component manufacturing—Con.												
334419	Other electronic component manufacturing .....	1	22	9	1 227	44 677	657	1 341	17 029	92 656	42 013	135 737	3 484
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	132	68	20 172	1 082 843	9 036	18 279	369 244	3 812 088	1 331 961	5 208 146	131 549
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	132	68	20 172	1 082 843	9 036	18 279	369 244	3 812 088	1 331 961	5 208 146	131 549
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	—	39	25	8 181	445 622	3 844	8 353	148 567	2 181 615	541 250	2 737 251	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	8	6	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	11	4	g	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	—	24	9	2 165	100 109	867	1 779	38 187	263 877	126 313	391 205	16 940
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	2	16	7	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	10	6	g	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	—	19	10	h	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	4	19	8	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ..	4	19	8	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	6	10	5	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	'104	'47	'7 478	'315 945	'4 435	'8 417	'149 907	'851 306	'997 254	'1 864 114	'30 304
3353	Electrical equipment manufacturing .....	—	56	23	3 619	160 942	2 022	3 733	70 990	389 662	596 530	983 490	14 568
33531	Electrical equipment manufacturing .....	—	56	23	3 619	160 942	2 022	3 733	70 990	389 662	596 530	983 490	14 568
335312	Motor and generator manufacturing .....	—	7	4	2 151	96 243	1 219	2 204	45 800	267 235	489 039	754 158	D
335313	Switchgear and switchboard apparatus manufacturing ..	3	12	6	354	15 126	236	432	8 239	27 931	23 386	52 066	D
335314	Relay and industrial control manufacturing .....	1	29	10	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	'39	'22	h	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ..	—	11	8	g	D	D	D	D	D	D	D	7 624
335931	Current-carrying wiring device manufacturing .....	—	8	6	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	1	'20	'10	'1 185	'36 692	'612	'1 124	'13 834	'75 059	'140 508	'231 998	'6 813
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	'19	'10	g	D	D	D	D	D	D	D	'6 813

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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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<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>													
336	Transportation equipment manufacturing .....	—	98	34	4 617	230 813	3 760	7 299	183 600	840 164	1 789 965	2 622 683	24 950
3361	Motor vehicle manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	—	17	4	445	15 123	335	460	9 709	35 956	42 368	77 199	D
33621	Motor vehicle body and trailer manufacturing .....	—	17	4	445	15 123	335	460	9 709	35 956	42 368	77 199	D
336211	Motor vehicle body manufacturing .....	—	11	4	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	3	40	10	f	D	D	D	D	D	D	D	3 110
33632	Motor vehicle electrical and electronic equipment manufacturing .....	8	5	2	e	D	D	D	D	D	D	D	1 050
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	8	5	2	e	D	D	D	D	D	D	D	1 050
3364	Aerospace product and parts manufacturing .....	—	11	6	e	D	D	D	D	D	D	D	4 596
33641	Aerospace product and parts manufacturing .....	—	11	6	e	D	D	D	D	D	D	D	4 596
3366	Ship and boat building .....	—	10	7	e	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	—	10	7	e	D	D	D	D	D	D	D	D
336612	Boat building .....	—	9	6	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	15	4	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	15	4	e	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	—	8	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	381	82	7 434	244 812	5 372	10 009	147 432	552 765	393 192	948 665	17 520
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	273	33	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing .....	1	195	20	2 411	72 424	1 827	3 486	47 275	170 657	95 406	267 306	7 310
337110	Wood kitchen cabinet and countertop manufacturing ..	1	195	20	2 411	72 424	1 827	3 486	47 275	170 657	95 406	267 306	7 310
33712	Household and institutional furniture manufacturing .....	—	78	13	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing .....	—	24	5	624	15 364	517	967	11 540	42 437	45 527	87 962	1 401
337122	Nonupholstered wood household furniture manufacturing .....	1	38	2	304	7 708	252	472	5 692	16 201	11 805	29 012	723
337127	Institutional furniture manufacturing .....	—	10	5	576	20 284	401	775	12 076	46 167	28 250	74 089	D
3372	Office furniture (including fixtures) manufacturing .....	2	94	44	2 953	111 740	1 973	3 615	59 902	232 611	161 934	395 500	6 331
33721	Office furniture (including fixtures) manufacturing .....	2	94	44	2 953	111 740	1 973	3 615	59 902	232 611	161 934	395 500	6 331
337211	Wood office furniture manufacturing .....	—	12	5	316	10 746	246	420	7 079	22 756	10 317	33 380	555
337212	Custom architectural woodwork and millwork manufacturing .....	—	30	10	620	24 070	410	768	12 728	51 978	35 456	88 522	1 070
337214	Office furniture (except wood) manufacturing .....	—	9	5	388	16 772	247	471	8 164	40 707	29 830	70 883	659
337215	Showcase, partition, shelving, and locker manufacturing .....	3	43	24	1 629	60 152	1 070	1 956	31 931	117 170	86 331	202 715	4 047
3379	Other furniture related product manufacturing .....	1	14	5	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
<b>Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area—Con.</b>													
339	Miscellaneous manufacturing .....	2	'533	'147	'16 820	'760 442	'8 814	'17 488	'276 355	'1 645 944	'809 502	'2 462 919	'116 329
3391	Medical equipment and supplies manufacturing .....	'2	'226	'80	j	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	'2	'226	'80	j	D	D	D	D	D	D	D	D
339111	Laboratory apparatus and furniture manufacturing ....	—	7	4	e	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	3	60	30	6 420	346 283	2 635	5 384	91 496	702 752	300 514	1 017 403	D
339113	Surgical appliance and supplies manufacturing ....	2	'45	'20	'2 622	'134 479	'1 193	'2 344	'40 079	'332 938	'140 276	'466 790	D
339115	Ophthalmic goods manufacturing .....	6	7	5	509	18 605	341	699	10 299	78 277	32 041	111 902	D
339116	Dental laboratories .....	2	92	19	1 140	39 858	836	1 687	29 017	66 297	14 816	80 553	D
3399	Other miscellaneous manufacturing .....	2	'307	'67	i	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	—	'41	8	'1 290	'43 099	'802	'1 545	'20 729	'110 162	'67 925	'178 371	D
339920	Sporting and athletic goods manufacturing .....	—	'41	8	'1 290	'43 099	'802	'1 545	'20 729	'110 162	'67 925	'178 371	D
33995	Sign manufacturing .....	'3	'109	'28	'2 095	'80 173	'1 219	'2 341	'37 877	'159 975	'110 852	'270 746	'4 867
339950	Sign manufacturing .....	'3	'109	'28	'2 095	'80 173	'1 219	'2 341	'37 877	'159 975	'110 852	'270 746	'4 867
33999	All other miscellaneous manufacturing .....	'3	'104	'26	'1 751	'61 045	'1 211	'2 397	'31 944	'121 187	'85 276	'205 845	'6 286
339991	Gasket, packing, and sealing device manufacturing .....	2	14	8	502	19 379	334	736	10 368	35 432	17 975	53 457	3 601
339999	All other miscellaneous manufacturing .....	1	'76	'16	'1 019	'33 788	'699	'1 275	'17 387	'68 389	'54 475	'122 154	'2 291
<b>Red Wing, MN Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	90	33	4 485	163 726	3 296	6 404	100 008	412 114	619 206	1 029 059	11 928
311	Food manufacturing .....	—	15	9	621	20 136	450	915	13 196	78 085	387 937	463 288	2 044
3115	Dairy product manufacturing .....	—	3	3	353	11 430	259	536	7 988	44 967	297 294	337 960	490
31151	Dairy product (except frozen) manufacturing .....	—	3	3	353	11 430	259	536	7 988	44 967	297 294	337 960	490
316	Leather and allied product manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing .....	—	1	1	e	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing .....	—	1	1	e	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing .....	—	1	1	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	6	2	e	D	D	D	D	D	D	D	271
3231	Printing and related support activities .....	—	6	2	e	D	D	D	D	D	D	D	271
32311	Printing .....	—	6	2	e	D	D	D	D	D	D	D	271
326	Plastics and rubber products manufacturing .....	3	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	12	5	467	16 383	324	636	10 254	73 168	24 449	98 111	1 432
333	Machinery manufacturing .....	—	5	3	452	16 434	338	718	10 572	41 156	18 609	59 393	1 253
3339	Other general purpose machinery manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	10	4	488	16 924	375	702	11 004	49 627	28 486	78 540	1 947
3399	Other miscellaneous manufacturing .....	—	6	3	417	14 142	323	592	9 391	40 127	26 673	66 607	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
<b>St. Cloud, MN Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	-	325	112	'16 523	'573 584	'12 714	'25 238	'402 796	1 514 741	1 582 486	3 096 325	104 566
311	Food manufacturing .....	-	38	15	2 924	82 227	2 210	4 536	56 205	240 186	461 118	698 255	11 773
3115	Dairy product manufacturing .....	-	5	3	335	11 402	293	562	9 640	69 922	226 810	293 805	4 318
31151	Dairy product (except frozen) manufacturing .....	-	5	3	335	11 402	293	562	9 640	69 922	226 810	293 805	4 318
311513	Cheese manufacturing .....	-	4	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	10	5	1 725	45 289	1 446	2 995	33 180	86 393	180 296	266 891	2 970
31161	Animal slaughtering and processing .....	-	10	5	1 725	45 289	1 446	2 995	33 180	86 393	180 296	266 891	2 970
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	11	4	701	20 523	346	688	9 914	60 006	23 466	83 465	D
31181	Bread and bakery product manufacturing .....	-	11	4	701	20 523	346	688	9 914	60 006	23 466	83 465	D
311812	Commercial bakeries .....	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	19	7	902	25 936	759	1 451	19 544	63 778	69 789	133 084	D
3219	Other wood product manufacturing .....	3	16	7	881	25 396	740	1 420	19 104	60 599	67 215	127 456	D
32191	Millwork .....	3	8	6	826	24 401	695	1 354	18 402	58 817	65 663	124 121	D
321911	Wood window and door manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing .....	-	3	3	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	34	11	2 584	96 740	1 765	3 472	56 537	270 804	121 164	392 425	33 118
3231	Printing and related support activities .....	-	34	11	2 584	96 740	1 765	3 472	56 537	270 804	121 164	392 425	33 118
32311	Printing .....	-	31	11	2 560	95 873	1 746	3 433	55 954	269 020	120 591	390 068	33 065
323110	Commercial lithographic printing .....	-	15	6	1 900	70 120	1 401	2 835	46 512	176 061	78 387	254 356	D
323118	Blankbook, looseleaf binders, and devices manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	10	5	414	12 041	303	691	6 816	35 524	35 513	70 142	515
3261	Plastics product manufacturing .....	-	9	5	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	7	4	e	D	D	D	D	D	D	D	431
326199	All other plastics product manufacturing .....	-	7	4	e	D	D	D	D	D	D	D	431
327	Nonmetallic mineral product manufacturing .....	-	34	13	1 318	54 711	1 118	2 276	43 728	146 329	65 395	210 442	5 983
3279	Other nonmetallic mineral product manufacturing .....	-	18	9	1 062	42 842	961	1 932	38 054	121 299	49 294	168 532	4 546
32799	All other nonmetallic mineral product manufacturing .....	-	18	9	1 062	42 842	961	1 932	38 054	121 299	49 294	168 532	4 546
327991	Cut stone and stone product manufacturing .....	-	17	9	g	D	D	D	D	D	D	D	4 546
331	Primary metal manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
3315	Foundries .....	-	2	1	e	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	-	2	1	e	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	2	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA—Con.</b>													
<b>St. Cloud, MN Metropolitan Statistical Area—Con.</b>													
332	Fabricated metal product manufacturing .....	1	39	10	1 273	54 295	881	1 713	33 773	103 787	76 216	179 139	6 686
3324	Boiler, tank, and shipping container manufacturing .....	6	4	3	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing .....	6	3	3	293	13 271	189	396	7 208	19 512	12 922	32 427	D
332420	Metal tank (heavy gauge) manufacturing .....	6	3	3	293	13 271	189	396	7 208	19 512	12 922	32 427	D
3329	Other fabricated metal product manufacturing .....	—	6	3	577	28 930	387	809	17 864	61 454	50 629	111 667	D
33291	Metal valve manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	24	9	1 883	139 200	1 526	1 985	19 386	85 132	85 642	171 564	12 765
3332	Industrial machinery manufacturing .....	1	6	3	343	19 084	156	331	7 141	38 773	37 425	77 329	D
335	Electrical equipment, appliance, and component manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	—	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	16	7	1 045	33 126	698	1 318	23 515	91 164	152 136	246 700	D
3362	Motor vehicle body and trailer manufacturing .....	—	6	5	932	30 341	612	1 139	21 468	84 468	145 309	233 399	D
33621	Motor vehicle body and trailer manufacturing .....	—	6	5	932	30 341	612	1 139	21 468	84 468	145 309	233 399	D
336211	Motor vehicle body manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336212	Truck trailer manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	46	16	864	25 147	679	1 282	17 316	54 663	25 702	80 292	2 245
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	36	10	514	15 666	417	763	10 861	33 177	15 133	48 148	843
33711	Wood kitchen cabinet and countertop manufacturing ....	1	26	5	332	9 628	291	505	7 669	19 171	10 482	29 477	603
337110	Wood kitchen cabinet and countertop manufacturing ..	1	26	5	332	9 628	291	505	7 669	19 171	10 482	29 477	603
3372	Office furniture (including fixtures) manufacturing .....	1	10	6	350	9 481	262	519	6 455	21 486	10 569	32 144	1 402
33721	Office furniture (including fixtures) manufacturing .....	1	10	6	350	9 481	262	519	6 455	21 486	10 569	32 144	1 402
339	Miscellaneous manufacturing .....	1	28	9	1 089	32 336	866	1 843	21 974	102 889	69 600	169 816	D
3391	Medical equipment and supplies manufacturing .....	1	14	8	1 009	29 449	808	1 737	20 516	94 197	67 076	158 636	D
33911	Medical equipment and supplies manufacturing .....	1	14	8	1 009	29 449	808	1 737	20 516	94 197	67 076	158 636	D
339113	Surgical appliance and supplies manufacturing ....	—	2	1	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	1	8	6	f	D	D	D	D	D	D	D	D
<b>ALBERT LEA, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	62	24	2 968	97 969	2 280	4 348	68 797	250 333	296 336	538 030	12 552
311	Food manufacturing .....	2	8	5	1 295	38 976	1 061	2 248	29 351	83 935	145 911	231 952	4 324
3116	Animal slaughtering and processing .....	9	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	3	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	9	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	11	3	294	10 195	209	382	8 343	23 659	20 484	42 259	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALBERT LEA, MN MICROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>ALEXANDRIA, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	89	23	2 636	88 575	2 050	4 055	60 948	316 927	185 562	504 629	19 541
326	Plastics and rubber products manufacturing .....	-	4	2	334	9 227	269	589	6 999	17 896	18 188	36 834	D
3261	Plastics product manufacturing ..	-	4	2	334	9 227	269	589	6 999	17 896	18 188	36 834	D
32619	Other plastics product manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32791	Abrasive product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
327910	Abrasive product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	-	2	1	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	2	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	27	7	373	11 426	317	623	8 877	29 095	20 012	49 314	6 911
333	Machinery manufacturing .....	4	12	6	773	29 435	593	1 208	20 797	58 390	40 123	99 686	1 700
3339	Other general purpose machinery manufacturing .....	5	8	4	692	26 805	543	1 153	19 764	50 277	35 944	87 412	1 279
33399	All other general purpose machinery manufacturing ....	5	6	4	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	5	4	3	f	D	D	D	D	D	D	D	1 166
<b>AUSTIN, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	36	12	4 347	176 193	3 109	6 279	90 873	733 771	704 525	1 447 000	10 877
311	Food manufacturing .....	-	8	3	h	D	D	D	D	D	D	D	7 729
3116	Animal slaughtering and processing .....	-	3	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	3	2	h	D	D	D	D	D	D	D	D
<b>BEMIDJI, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	47	9	1 470	44 999	1 207	2 280	33 400	98 631	132 889	231 022	D
314	Textile product mills .....	-	3	1	e	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	3	1	e	D	D	D	D	D	D	D	D
31412	Curtain and linen mills .....	-	3	1	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	15	5	594	25 255	502	1 008	20 458	64 470	110 871	174 609	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	-	3	2	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
321219	Reconstituted wood product manufacturing .....	-	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BEMIDJI, MN MICROPOLITAN STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing .....	9	2	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
<b>BRAINERD, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	151	34	2 636	86 362	2 001	3 799	56 066	226 316	168 789	395 907	17 639
321	Wood product manufacturing .....	—	16	4	412	13 077	331	613	9 274	49 222	35 239	85 216	D
323	Printing and related support activities .....	—	14	5	316	9 596	224	416	6 062	23 241	13 437	36 676	5 101
3231	Printing and related support activities .....	—	14	5	316	9 596	224	416	6 062	23 241	13 437	36 676	5 101
32311	Printing .....	—	13	5	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	7	5	303	9 131	235	479	6 059	21 638	15 844	37 855	2 754
3261	Plastics product manufacturing ..	2	5	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	25	6	639	21 687	517	977	15 585	49 622	22 617	71 974	3 600
3321	Forging and stamping.....	—	2	1	e	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	—	2	1	e	D	D	D	D	D	D	D	D
332116	Metal stamping .....	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	14	3	250	11 027	168	311	6 055	19 915	13 416	33 913	565
<b>DULUTH, MN-WI METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	329	79	8 270	306 650	5 737	11 296	188 339	870 311	612 814	1 964 328	483 054
311	Food manufacturing .....	1	32	6	694	19 505	452	824	8 994	61 415	49 868	113 494	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	3	1	291	9 723	170	323	2 970	21 589	19 695	41 324	D
31141	Frozen food manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	33	9	789	27 534	644	1 302	22 164	65 338	94 337	158 490	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	—	7	3	419	17 177	342	720	14 672	37 875	51 628	89 513	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	7	3	419	17 177	342	720	14 672	37 875	51 628	89 513	D
321219	Reconstituted wood product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	4	17	4	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	3	3	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	1	1	e	D	D	D	D	D	D	D	D
322122	Newsprint mills .....	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	32	5	318	8 953	239	385	5 606	22 055	10 534	32 662	D
3231	Printing and related support activities .....	1	32	5	318	8 953	239	385	5 606	22 055	10 534	32 662	D
32311	Printing .....	2	29	5	e	D	D	D	D	D	D	D	1 211
324	Petroleum and coal products manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	—	4	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DULUTH, MN-WI METROPOLITAN STATISTICAL AREA—Con.</b>													
325	Chemical manufacturing .....	-	14	5	489	16 956	337	659	9 926	45 786	40 235	88 074	D
3259	Other chemical product and preparation manufacturing .....	-	3	2	335	11 003	224	465	6 219	30 057	22 633	53 458	D
32599	All other chemical product and preparation manufacturing ...	-	2	2	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .	-	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	16	4	254	8 099	188	365	4 898	29 611	27 598	56 989	D
327	Nonmetallic mineral product manufacturing .....	1	25	7	762	31 611	629	1 282	25 060	86 224	78 893	166 678	D
3279	Other nonmetallic mineral product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing .	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	7	4	278	10 683	221	473	7 450	34 635	46 063	79 172	D
332	Fabricated metal product manufacturing .....	3	54	11	855	30 633	608	1 243	18 795	47 689	53 226	105 708	D
333	Machinery manufacturing .....	2	25	9	667	27 084	391	744	12 855	56 349	53 845	113 165	D
334	Computer and electronic product manufacturing .....	4	10	5	915	25 804	585	1 170	11 357	52 760	57 738	111 019	D
3344	Semiconductor and other electronic component manufacturing .....	4	4	4	878	24 538	569	1 151	11 073	50 906	56 499	107 917	D
33441	Semiconductor and other electronic component manufacturing .....	4	4	4	878	24 538	569	1 151	11 073	50 906	56 499	107 917	D
334412	Bare printed circuit board manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	9	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>FAIRMONT, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	45	13	1 792	57 303	1 238	2 234	32 933	146 564	117 222	270 854	D
311	Food manufacturing .....	-	4	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	1	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	4	3	454	16 556	265	514	7 762	32 154	30 661	65 913	D
3339	Other general purpose machinery manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	2	2	e	D	D	D	D	D	D	D	D
333997	Scale and balance (except laboratory) manufacturing ..	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	3	394	13 133	205	374	5 924	21 512	12 560	36 964	670

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FERGUS FALLS, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	86	27	3 572	102 730	2 805	5 337	69 239	312 419	286 866	603 187	27 851
311	Food manufacturing .....	-	15	8	1 680	44 478	1 283	2 588	28 270	160 366	139 821	304 520	11 153
3116	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	5	1	e	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	5	1	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	2	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	6	2	275	6 053	242	425	5 026	11 601	8 630	20 525	D
3219	Other wood product manufacturing .....	-	6	2	275	6 053	242	425	5 026	11 601	8 630	20 525	D
32191	Millwork .....	-	2	2	e	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	20	7	384	11 428	295	556	7 348	25 303	15 256	38 977	9 555
336	Transportation equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>GRAND FORKS, ND-MN METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	93	28	3 288	96 407	2 641	4 898	68 722	393 448	399 812	817 182	22 311
311	Food manufacturing .....	2	18	6	1 518	47 234	1 336	2 451	37 288	263 649	250 519	528 329	9 122
3113	Sugar and confectionery product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	8	6	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	11	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	7	4	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	8	2	280	4 368	247	578	3 431	8 706	4 545	13 415	667
<b>LA CROSSE, WI-MN METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	200	66	9 307	306 843	6 522	12 220	169 006	630 603	871 329	1 500 271	47 349
311	Food manufacturing .....	-	20	9	703	21 538	496	972	13 685	79 323	233 432	315 410	13 269
3115	Dairy product manufacturing .....	-	4	4	418	13 181	340	688	9 681	55 301	207 802	266 049	D
31151	Dairy product (except frozen) manufacturing .....	-	4	4	418	13 181	340	688	9 681	55 301	207 802	266 049	D
311513	Cheese manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	5	2	360	13 330	292	524	9 647	33 549	31 542	64 760	D
3121	Beverage manufacturing .....	-	5	2	360	13 330	292	524	9 647	33 549	31 542	64 760	D
31212	Breweries .....	-	2	1	e	D	D	D	D	D	D	D	D
312120	Breweries .....	-	2	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LA CROSSE, WI-MN METROPOLITAN STATISTICAL AREA—Con.</b>													
321	Wood product manufacturing .....	—	15	8	1 177	26 931	960	1 661	16 696	55 301	67 645	116 851	3 125
3211	Sawmills and wood preservation ..	—	3	1	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	—	3	1	e	D	D	D	D	D	D	D	D
321113	Sawmills .....	—	3	1	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	—	10	5	f	D	D	D	D	D	D	D	2 157
32191	Millwork .....	—	4	4	538	12 388	462	1 002	8 767	28 325	32 421	59 547	1 959
321911	Wood window and door manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	28	9	1 324	38 616	1 107	2 018	25 765	74 933	51 842	126 125	5 314
3231	Printing and related support activities .....	—	28	9	1 324	38 616	1 107	2 018	25 765	74 933	51 842	126 125	5 314
32311	Printing .....	—	26	9	g	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	—	8	5	894	22 689	777	1 365	15 605	40 859	18 926	59 337	2 380
332	Fabricated metal product manufacturing .....	—	32	11	964	32 758	765	1 395	23 605	84 583	96 643	180 995	2 464
3324	Boiler, tank, and shipping container manufacturing .....	—	4	2	328	14 892	256	454	10 825	47 714	67 358	115 100	954
333	Machinery manufacturing .....	—	16	6	2 905	122 307	1 454	2 811	44 746	186 420	289 261	479 609	12 800
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	h	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	4	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	8	4	736	17 284	571	1 106	11 794	36 701	28 723	65 254	D
3363	Motor vehicle parts manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	—	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	3	3	f	D	D	D	D	D	D	D	D
<b>MANKATO-NORTH MANKATO, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	126	57	8 627	266 508	5 951	11 274	153 583	956 884	1 536 544	2 499 288	40 708
311	Food manufacturing .....	2	17	10	919	38 184	607	1 304	21 050	380 443	933 454	1 307 040	20 105
3111	Animal food manufacturing .....	3	3	3	259	11 206	127	275	3 629	26 800	84 683	111 609	D
31111	Animal food manufacturing ....	3	3	3	259	11 206	127	275	3 629	26 800	84 683	111 609	D
311119	Other animal food manufacturing .....	3	3	3	259	11 206	127	275	3 629	26 800	84 683	111 609	D
3112	Grain and oilseed milling .....	2	7	5	e	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing .....	2	6	4	e	D	D	D	D	D	D	D	D
311225	Fats and oils refining and blending .....	3	4	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	16	11	3 249	69 793	2 274	3 981	40 745	186 266	81 027	266 685	3 110
3231	Printing and related support activities .....	—	16	11	3 249	69 793	2 274	3 981	40 745	186 266	81 027	266 685	3 110
32311	Printing .....	—	16	11	3 249	69 793	2 274	3 981	40 745	186 266	81 027	266 685	3 110
323110	Commercial lithographic printing .....	—	11	10	h	D	D	D	D	D	D	D	3 064
326	Plastics and rubber products manufacturing .....	—	7	5	498	16 970	397	848	12 639	47 289	62 195	108 918	1 361
3261	Plastics product manufacturing ..	—	7	5	498	16 970	397	848	12 639	47 289	62 195	108 918	1 361
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	3	2	293	10 790	241	574	8 633	34 312	47 754	81 336	837
332	Fabricated metal product manufacturing .....	—	20	6	524	19 163	410	713	13 384	44 957	63 582	111 375	3 065

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MANKATO-NORTH MANKATO, MN MICROPOLITAN STATISTICAL AREA—Con.</b>													
333	Machinery manufacturing .....	-	11	6	794	28 499	425	789	9 678	47 139	84 081	134 107	3 723
3331	Agriculture, construction, and mining machinery manufacturing .....	-	4	3	294	8 971	191	401	3 730	17 356	17 342	34 776	496
334	Computer and electronic product manufacturing .....	-	6	4	379	13 075	252	435	6 611	22 383	24 582	47 558	441
3344	Semiconductor and other electronic component manufacturing .....	-	5	4	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	5	4	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	4	626	25 234	448	948	16 842	79 506	80 929	163 752	3 418
3353	Electrical equipment manufacturing .....	-	4	4	626	25 234	448	948	16 842	79 506	80 929	163 752	3 418
33531	Electrical equipment manufacturing .....	-	4	4	626	25 234	448	948	16 842	79 506	80 929	163 752	3 418
335312	Motor and generator manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	6	4	681	23 040	426	844	11 800	53 968	38 162	93 391	2 636
3363	Motor vehicle parts manufacturing .....	3	2	2	e	D	D	D	D	D	D	D	D
<b>MARSHALL, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	4	33	12	1 611	49 201	1 328	2 737	35 967	219 795	299 702	514 468	40 894
311	Food manufacturing .....	6	7	4	809	27 537	687	1 493	20 663	139 408	226 598	360 444	D
3115	Dairy product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>NEW ULM, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	41	20	3 689	116 114	2 986	6 117	85 415	589 630	631 785	1 225 170	34 223
311	Food manufacturing .....	-	8	6	1 268	40 120	1 142	2 410	33 923	238 582	484 022	722 686	15 430
3115	Dairy product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	4	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OWATONNA, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	75	24	5 965	236 025	4 181	8 529	127 365	561 382	622 685	1 186 976	30 147
311	Food manufacturing .....	9	7	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	19	5	2 207	90 003	1 412	2 750	37 976	210 195	343 717	552 458	6 298
3322	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	5	5	431	16 787	241	461	7 420	30 057	70 396	103 696	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	5	3	350	11 926	293	654	9 563	23 147	31 913	55 634	D
3399	Other miscellaneous manufacturing .....	-	5	3	350	11 926	293	654	9 563	23 147	31 913	55 634	D
33992	Sporting and athletic goods manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
<b>ROCHESTER, MN METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	159	58	14 931	703 310	6 856	13 960	217 021	1 581 371	2 793 144	4 304 369	115 089
311	Food manufacturing .....	-	22	15	1 954	61 789	1 692	3 395	51 029	165 268	678 749	838 460	8 257
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	2	2	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	-	2	2	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	5	5	936	32 660	813	1 538	26 507	89 282	461 640	549 194	5 894
31151	Dairy product (except frozen) manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	16	7	572	20 284	412	793	13 547	38 719	24 141	62 364	2 012
3231	Printing and related support activities .....	-	16	7	572	20 284	412	793	13 547	38 719	24 141	62 364	2 012
32311	Printing .....	-	16	7	572	20 284	412	793	13 547	38 719	24 141	62 364	2 012
323110	Commercial lithographic printing .....	-	10	4	421	15 612	312	607	10 786	29 274	18 077	47 159	1 885
326	Plastics and rubber products manufacturing .....	1	6	3	255	7 961	187	361	4 574	17 100	23 044	40 218	1 674
332	Fabricated metal product manufacturing .....	2	19	5	317	10 837	230	449	6 888	19 258	19 093	38 825	1 666

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>ROCHESTER, MN METROPOLITAN STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing .....	-	12	2	515	15 579	282	614	8 301	95 699	67 808	164 368	1 830
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	10	5	i	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	-	2	1	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	-	2	1	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	-	2	1	i	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	4	2	e	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	2	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	2	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
33512	Lighting fixture manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	3	1 995	82 313	1 635	3 604	60 154	113 776	383 034	508 477	9 333
3362	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	21	4	461	13 909	344	672	8 936	26 399	15 368	42 654	423
3372	Office furniture (including fixtures) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	15	3	288	10 175	191	360	5 509	17 940	11 217	28 494	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WILLMAR, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	64	19	2 909	80 753	2 119	4 134	42 209	232 399	280 909	510 357	5 564
311	Food manufacturing .....	-	11	4	1 920	49 927	1 510	3 017	28 089	135 616	189 808	322 688	1 597
3116	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>WINONA, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	114	44	5 583	178 280	3 976	7 612	107 414	484 631	532 493	1 020 812	26 242
311	Food manufacturing .....	2	13	5	558	17 974	442	954	12 772	89 667	110 554	200 437	10 962
323	Printing and related support activities .....	-	12	4	407	12 069	325	623	9 403	36 450	24 227	59 550	2 971
3231	Printing and related support activities .....	-	12	4	407	12 069	325	623	9 403	36 450	24 227	59 550	2 971
32311	Printing .....	-	11	4	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	7	3	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	4	2	482	20 604	276	556	8 840	54 517	62 541	116 478	D
3259	Other chemical product and preparation manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins .....	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	8	6	306	10 274	258	525	7 429	19 880	11 111	30 903	D
3315	Foundries .....	-	8	6	306	10 274	258	525	7 429	19 880	11 111	30 903	D
332	Fabricated metal product manufacturing .....	-	15	4	534	16 387	370	739	9 719	41 747	25 075	68 086	1 614
3326	Spring and wire product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	13	5	279	10 655	145	305	4 829	12 561	15 538	31 181	347
334	Computer and electronic product manufacturing .....	-	5	3	1 616	46 476	1 244	2 227	32 009	132 832	200 250	333 509	2 690
3344	Semiconductor and other electronic component manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	5	4	545	20 403	251	482	6 865	46 195	48 410	95 250	D
3353	Electrical equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>WORTHINGTON, MN MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	27	7	2 330	71 836	1 868	4 071	51 593	185 374	555 381	753 777	6 288
311	Food manufacturing .....	-	7	2	g	D	D	D	D	D	D	D	3 903
3116	Animal slaughtering and processing .....	-	3	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	1	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.

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries 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.

<sup>4</sup>Number 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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ANOKA</b>													
31-33	Manufacturing .....	-	655	180	22 944	'1 018 626	'13 556	26 854	'479 600	2 506 784	1 769 863	4 272 690	106 719
322	Paper manufacturing .....	-	12	6	551	22 059	404	702	13 850	46 769	77 698	124 868	4 122
3222	Converted paper product manufacturing .....	-	12	6	551	22 059	404	702	13 850	46 769	77 698	124 868	4 122
32221	Paperboard container manufacturing .....	-	8	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	3	50	11	1 311	46 235	994	1 722	29 117	104 993	53 361	158 256	3 229
3231	Printing and related support activities .....	3	50	11	1 311	46 235	994	1 722	29 117	104 993	53 361	158 256	3 229
32311	Printing .....	3	43	10	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	3	17	4	562	23 822	450	819	16 211	62 756	32 070	95 050	1 385
323113	Commercial screen printing .....	3	9	4	552	15 813	402	665	9 147	28 994	15 551	44 332	695
325	Chemical manufacturing .....	-	14	8	616	30 770	248	490	10 920	159 236	109 830	268 194	7 269
326	Plastics and rubber products manufacturing .....	4	25	13	997	32 380	728	1 492	19 430	92 720	65 804	154 722	5 508
3261	Plastics product manufacturing .....	4	23	11	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	4	21	10	883	28 765	644	1 336	17 118	86 370	60 546	143 114	5 231
326199	All other plastics product manufacturing .....	4	21	10	883	28 765	644	1 336	17 118	86 370	60 546	143 114	5 231
332	Fabricated metal product manufacturing .....	-	'218	'52	'6 734	'321 463	'3 724	'7 847	'139 053	'750 695	'339 563	'1 076 544	'32 185
3321	Forging and stamping.....	-	15	9	834	33 411	633	1 353	21 809	66 943	33 583	102 166	3 366
33211	Forging and stamping.....	-	15	9	834	33 411	633	1 353	21 809	66 943	33 583	102 166	3 366
332116	Metal stamping.....	-	12	8	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	'123	'21	'1 659	'66 886	'1 272	'2 516	'46 473	'134 565	'58 370	'193 410	'16 486
33271	Machine shops .....	1	'103	'15	'1 048	'41 363	'787	'1 475	'26 723	'76 523	'30 383	'107 334	'10 538
332710	Machine shops .....	1	'103	'15	'1 048	'41 363	'787	'1 475	'26 723	'76 523	'30 383	'107 334	'10 538
33272	Turned product and screw, nut, and bolt manufacturing .....	1	20	6	611	25 523	485	1 041	19 750	58 042	27 987	86 076	5 948
332721	Precision turned product manufacturing .....	1	18	5	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	16	7	3 089	177 671	944	2 136	42 764	459 496	202 458	646 733	8 147
33299	All other fabricated metal product manufacturing .....	-	15	6	h	D	D	D	D	D	D	D	D
332992	Small arms ammunition manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	90	29	2 665	125 761	1 548	2 906	64 887	189 064	180 558	372 237	6 815
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	6	4	663	33 691	257	501	12 783	14 123	58 516	73 207	450
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	6	4	663	33 691	257	501	12 783	14 123	58 516	73 207	450
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	-	45	10	1 005	48 181	697	1 320	31 368	94 246	42 910	136 238	2 616
33351	Metalworking machinery manufacturing .....	-	45	10	1 005	48 181	697	1 320	31 368	94 246	42 910	136 238	2 616
3339	Other general purpose machinery manufacturing .....	2	20	10	514	24 338	259	402	9 424	41 128	42 449	86 675	2 254
334	Computer and electronic product manufacturing .....	-	33	12	2 589	115 536	1 186	2 569	33 983	319 903	135 683	472 694	10 544
3344	Semiconductor and other electronic component manufacturing .....	-	11	5	g	D	D	D	D	D	D	D	3 820
33441	Semiconductor and other electronic component manufacturing .....	-	11	5	g	D	D	D	D	D	D	D	3 820
334419	Other electronic component manufacturing .....	-	4	1	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ANOKA—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . .	—	15	6	1 434	75 615	537	1 161	17 888	235 931	93 707	344 557	6 147
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . .	—	15	6	1 434	75 615	537	1 161	17 888	235 931	93 707	344 557	6 147
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing . . . . .	—	7	2	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing . . . . .	—	2	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing . . . . .	—	2	1	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing . . .	—	1	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing . . . . .	—	55	10	742	26 701	522	986	15 055	54 179	38 045	92 757	1 440
339	Miscellaneous manufacturing . . . . .	2	62	17	1 916	88 859	1 191	2 340	39 694	190 953	91 525	280 193	13 644
3391	Medical equipment and supplies manufacturing . . . . .	3	28	11	1 323	64 075	769	1 595	25 841	147 731	42 626	188 504	10 173
33911	Medical equipment and supplies manufacturing . . . . .	3	28	11	1 323	64 075	769	1 595	25 841	147 731	42 626	188 504	10 173
339112	Surgical and medical instrument manufacturing . .	—	9	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing . . . . .	—	34	6	593	24 784	422	745	13 853	43 222	48 899	91 689	3 471
<b>BECKER</b>													
31-33	Manufacturing . . . . .	—	41	11	1 652	52 394	1 148	2 257	31 537	142 990	90 973	232 014	22 736
332	Fabricated metal product manufacturing . . . . .	—	9	4	850	29 593	650	1 205	19 447	79 147	46 022	124 022	D
<b>BELTRAMI</b>													
31-33	Manufacturing . . . . .	1	47	9	1 470	44 999	1 207	2 280	33 400	98 631	132 889	231 022	D
321	Wood product manufacturing . . . . .	—	15	5	594	25 255	502	1 008	20 458	64 470	110 871	174 609	D
<b>BENTON</b>													
31-33	Manufacturing . . . . .	—	70	36	3 889	132 656	2 682	5 399	81 266	333 636	252 273	580 367	12 634
311	Food manufacturing . . . . .	1	5	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing . . . . .	1	8	3	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	1	7	3	f	D	D	D	D	D	D	D	D
32191	Millwork . . . . .	1	4	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
32311	Printing . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing . . . . .	—	6	5	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
<b>BLUE EARTH</b>													
31-33	Manufacturing . . . . .	2	86	39	3 993	147 341	2 685	5 191	80 998	657 410	1 235 295	1 894 735	32 653
311	Food manufacturing . . . . .	2	14	10	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing . . . . .	—	9	5	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BROWN</b>													
31-33	Manufacturing .....	-	41	20	3 689	116 114	2 986	6 117	85 415	589 630	631 785	1 225 170	34 223
311	Food manufacturing .....	-	8	6	g	D	D	D	D	D	D	D	15 430
3115	Dairy product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	4	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CARLTON</b>													
31-33	Manufacturing .....	-	37	5	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	9	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CARVER</b>													
31-33	Manufacturing .....	-	157	70	11 183	449 395	7 233	14 531	234 842	1 297 151	909 751	2 185 338	86 943
311	Food manufacturing .....	1	20	11	2 184	73 226	1 739	3 729	53 328	265 501	360 854	627 082	9 925
3115	Dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	13	4	545	31 111	317	728	16 062	44 618	40 510	84 260	D
3231	Printing and related support activities .....	-	13	4	545	31 111	317	728	16 062	44 618	40 510	84 260	D
32311	Printing .....	-	13	4	545	31 111	317	728	16 062	44 618	40 510	84 260	D
326	Plastics and rubber products manufacturing .....	-	12	6	1 801	53 944	1 455	2 817	36 783	202 660	44 170	231 497	D
3261	Plastics product manufacturing .....	-	12	6	1 801	53 944	1 455	2 817	36 783	202 660	44 170	231 497	D
32619	Other plastics product manufacturing .....	-	9	6	1 781	53 252	1 439	2 789	36 307	201 898	43 109	229 674	D
326199	All other plastics product manufacturing .....	-	9	6	1 781	53 252	1 439	2 789	36 307	201 898	43 109	229 674	D
332	Fabricated metal product manufacturing .....	2	31	14	917	38 986	614	1 180	22 379	74 630	41 821	114 777	3 746
333	Machinery manufacturing .....	-	18	9	1 072	57 446	528	1 095	17 858	127 380	95 223	219 312	3 960
334	Computer and electronic product manufacturing .....	-	14	10	2 333	105 220	1 102	2 235	44 392	354 830	150 980	508 315	15 508
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	9	6	2 079	92 497	974	1 970	40 714	330 394	132 012	465 023	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	9	6	2 079	92 497	974	1 970	40 714	330 394	132 012	465 023	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	-	2	2	g	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CARVER—Con.</b>													
337	Furniture and related product manufacturing .....	-	15	3	703	22 419	534	1 059	14 083	67 724	39 243	106 941	3 012
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	12	2	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	-	10	2	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	-	10	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	12	4	873	35 167	503	819	16 871	58 953	56 668	115 810	D
3391	Medical equipment and supplies manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>CHIPPEWA</b>													
31-33	Manufacturing .....	3	24	7	726	24 029	551	1 178	17 630	56 213	52 743	108 466	2 090
<b>CHISAGO</b>													
31-33	Manufacturing .....	1	98	26	1 889	61 900	1 414	2 858	39 217	126 746	130 876	260 419	10 192
326	Plastics and rubber products manufacturing .....	-	11	4	578	17 483	453	859	11 164	37 991	28 917	67 280	D
3261	Plastics product manufacturing ..	-	10	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	9	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	8	4	f	D	D	D	D	D	D	D	D
<b>CLAY</b>													
31-33	Manufacturing .....	-	40	7	745	27 495	601	1 083	19 616	91 746	144 123	225 583	5 831
<b>CLEARWATER</b>													
31-33	Manufacturing .....	1	17	4	519	17 089	283	513	6 607	43 977	81 746	126 756	2 043
<b>COTTONWOOD</b>													
31-33	Manufacturing .....	1	22	8	1 056	28 179	891	1 719	21 833	110 992	252 010	362 823	11 767
333	Machinery manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>CROW WING</b>													
31-33	Manufacturing .....	1	111	32	2 429	81 290	1 834	3 482	52 576	212 507	159 169	372 519	D
332	Fabricated metal product manufacturing .....	-	20	6	632	21 433	511	967	15 414	49 139	22 195	71 069	3 582
<b>DAKOTA</b>													
31-33	Manufacturing .....	-	486	178	18 999	752 167	12 904	26 218	417 866	2 290 263	4 348 904	6 642 005	151 999
311	Food manufacturing .....	1	45	22	2 949	98 047	2 411	5 181	75 516	471 026	485 275	960 339	24 675
3113	Sugar and confectionery product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	9	6	661	25 364	501	1 144	16 558	108 721	221 931	333 963	4 819
31161	Animal slaughtering and processing .....	-	9	6	661	25 364	501	1 144	16 558	108 721	221 931	333 963	4 819
3119	Other food manufacturing .....	1	11	5	660	19 902	601	1 350	16 892	123 936	29 538	154 201	5 221
31199	All other food manufacturing ..	2	8	5	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing .....	3	5	3	f	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
31211	Soft drink and ice manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	-	2	2	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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DAKOTA—Con.</b>													
322	Paper manufacturing .....	—	9	6	1 367	54 327	930	2 086	28 294	110 323	110 327	214 317	6 458
3222	Converted paper product manufacturing .....	—	9	6	1 367	54 327	930	2 086	28 294	110 323	110 327	214 317	6 458
32223	Stationery product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
322231	Die-cut paper and paperboard office supplies manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	58	13	1 065	38 579	670	1 367	20 731	94 353	74 262	169 004	4 847
3231	Printing and related support activities .....	—	58	13	1 065	38 579	670	1 367	20 731	94 353	74 262	169 004	4 847
32311	Printing .....	—	56	13	g	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	—	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	42	19	2 393	82 568	1 852	3 693	53 365	181 059	116 128	292 497	12 244
3261	Plastics product manufacturing ..	2	36	18	2 323	79 989	1 809	3 608	52 083	176 192	110 796	282 422	D
32619	Other plastics product manufacturing .....	2	21	12	1 778	60 194	1 373	2 737	38 364	125 618	78 203	204 273	5 943
326199	All other plastics product manufacturing .....	2	20	12	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	92	31	2 270	87 577	1 679	3 114	56 315	194 942	132 949	331 013	14 395
3329	Other fabricated metal product manufacturing .....	—	14	4	518	25 071	331	594	14 355	66 356	54 793	122 262	D
333	Machinery manufacturing .....	1	144	19	1 054	48 688	1 592	1 156	20 255	72 824	67 975	141 286	3 329
3339	Other general purpose machinery manufacturing .....	1	13	6	662	34 122	294	578	10 419	49 073	36 546	86 246	2 180
33399	All other general purpose machinery manufacturing ....	—	11	5	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	23	10	g	D	D	D	D	D	D	D	6 277
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	4	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	4	38	15	1 255	40 516	871	1 651	24 525	86 821	55 352	145 764	2 689
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	28	7	550	16 065	428	828	10 960	33 805	27 689	64 393	1 405
3372	Office furniture (including fixtures) manufacturing .....	5	10	8	705	24 451	443	823	13 565	53 016	27 663	81 371	1 284
33721	Office furniture (including fixtures) manufacturing .....	5	10	8	705	24 451	443	823	13 565	53 016	27 663	81 371	1 284
339	Miscellaneous manufacturing .....	1	43	17	1 336	46 868	774	1 491	20 564	102 236	89 894	190 936	3 622
3391	Medical equipment and supplies manufacturing .....	—	19	7	1 502	17 761	1 319	1 620	18 104	47 510	44 226	90 956	2 250
33911	Medical equipment and supplies manufacturing .....	—	19	7	1 502	17 761	1 319	1 620	18 104	47 510	44 226	90 956	2 250
3399	Other miscellaneous manufacturing .....	1	24	10	1 834	29 107	1 455	1 871	12 460	54 726	45 668	99 980	1 372

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>DODGE</b>													
31-33	Manufacturing .....	-	27	6	1 022	41 460	819	1 827	29 826	41 806	329 921	384 134	D
336	Transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DOUGLAS</b>													
31-33	Manufacturing .....	1	89	23	2 636	88 575	2 050	4 055	60 948	316 927	185 562	504 629	19 541
333	Machinery manufacturing .....	4	12	6	773	29 435	593	1 208	20 797	58 390	40 123	99 686	1 700
3339	Other general purpose machinery manufacturing .....	5	8	4	692	26 805	543	1 153	19 764	50 277	35 944	87 412	1 279
33399	All other general purpose machinery manufacturing ....	5	6	4	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	5	4	3	f	D	D	D	D	D	D	D	1 166
<b>FARIBAULT</b>													
31-33	Manufacturing .....	-	33	14	1 422	39 568	1 118	2 184	26 551	153 127	165 545	322 282	10 333
311	Food manufacturing .....	-	6	4	679	18 592	611	1 190	14 347	63 521	90 491	154 018	D
<b>FILLMORE</b>													
31-33	Manufacturing .....	1	37	9	777	23 989	564	1 094	14 909	49 532	128 028	177 250	3 978
<b>FREEBORN</b>													
31-33	Manufacturing .....	2	62	24	2 968	97 969	2 280	4 348	68 797	250 333	296 336	538 030	12 552
311	Food manufacturing .....	2	8	5	1 295	38 976	1 061	2 248	29 351	83 935	145 911	231 952	4 324
3116	Animal slaughtering and processing .....	9	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	3	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	9	2	2	f	D	D	D	D	D	D	D	D
<b>GOODHUE</b>													
31-33	Manufacturing .....	-	90	33	4 485	163 726	3 296	6 404	100 008	412 114	619 206	1 029 059	11 928
311	Food manufacturing .....	-	15	9	621	20 136	450	915	13 196	78 085	387 937	463 288	2 044
316	Leather and allied product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>HENNEPIN</b>													
31-33	Manufacturing .....	1	'2 107	'750	'91 211	'4 103 285	'54 405	'107 923	'1 897 712	'9 475 432	'7 416 318	'17 084 300	'591 937
311	Food manufacturing .....	1	124	44	4 922	179 235	3 156	6 133	93 467	748 719	677 035	1 428 825	28 132
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	6	5	799	30 173	363	689	8 964	76 498	71 807	147 907	5 813
31141	Frozen food manufacturing ....	1	3	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	1	3	3	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	61	15	907	20 658	579	948	13 207	52 175	22 891	74 906	1 703
31181	Bread and bakery product manufacturing .....	2	51	12	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	28	10	1 500	46 823	1 171	2 317	33 868	293 826	122 625	416 201	8 567
31199	All other food manufacturing ...	-	18	7	1 169	37 465	953	1 862	27 441	253 185	84 255	337 529	7 787
311999	All other miscellaneous food manufacturing .....	-	13	4	877	26 841	730	1 408	18 887	209 936	57 119	267 020	D
321	Wood product manufacturing .....	-	39	9	681	24 513	513	1 029	15 780	52 219	73 153	125 600	D
3219	Other wood product manufacturing .....	-	32	8	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HENNEPIN—Con.</b>													
322	Paper manufacturing .....	1	47	27	3 154	127 802	2 233	4 512	80 801	276 220	376 916	658 147	18 909
3222	Converted paper product manufacturing .....	1	46	27	h	D	D	D	D	D	D	D	18 909
32221	Paperboard container manufacturing .....	—	22	14	1 695	68 638	1 178	2 339	38 904	141 178	195 785	340 657	10 812
322211	Corrugated and solid fiber box manufacturing .....	—	16	11	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	2	9	5	594	29 009	426	916	20 903	77 063	122 631	200 320	D
32223	Stationery product manufacturing .....	4	10	5	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing ....	4	6	4	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	361	115	11 259	465 623	7 778	15 214	278 089	'996 920	686 071	'1 674 892	55 660
3231	Printing and related support activities .....	1	361	115	11 259	465 623	7 778	15 214	278 089	'996 920	686 071	'1 674 892	55 660
32311	Printing .....	1	'313	97	'10 161	'413 264	'6 980	'13 588	'244 211	'898 221	'665 216	'1 556 686	'52 119
323110	Commercial lithographic printing .....	1	146	58	7 166	307 635	4 994	9 663	182 031	649 507	503 774	1 145 073	41 667
323112	Commercial flexographic printing .....	1	15	11	689	26 611	369	725	13 148	64 708	51 452	117 490	3 971
323116	Manifold business forms printing .....	2	'6	5	'529	'16 745	'409	'838	'11 399	'43 366	'21 788	'64 820	'1 278
32312	Support activities for printing ...	1	'48	18	'1 098	'52 359	'798	'1 626	'33 878	'98 699	'20 855	'118 206	'3 541
323122	Prepress services .....	1	29	11	712	40 051	485	997	24 571	76 160	15 962	91 188	2 383
325	Chemical manufacturing .....	2	69	31	2 740	134 650	1 379	2 869	48 534	421 361	305 159	729 856	38 909
3254	Pharmaceutical and medicine manufacturing .....	2	13	6	993	54 375	481	979	18 326	244 916	143 622	389 373	31 870
32541	Pharmaceutical and medicine manufacturing .....	2	13	6	993	54 375	481	979	18 326	244 916	143 622	389 373	31 870
325412	Pharmaceutical preparation manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	2	16	10	684	37 500	254	522	9 930	67 173	67 273	137 679	D
326	Plastics and rubber products manufacturing .....	2	98	54	5 508	202 991	3 888	7 851	120 951	500 234	433 752	950 926	30 575
3261	Plastics product manufacturing ..	2	84	46	4 945	182 311	3 533	7 113	110 587	456 642	402 970	876 534	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	3	10	8	560	26 449	385	823	15 809	74 612	81 282	155 282	3 307
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	939
326121	Un laminated plastics profile shape manufacturing .....	1	6	4	f	D	D	D	D	D	D	D	939
32619	Other plastics product manufacturing .....	2	58	29	3 366	120 577	2 405	4 832	72 727	322 331	214 268	537 855	22 793
326199	All other plastics product manufacturing .....	2	55	28	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	4	14	8	563	20 680	355	738	10 364	43 592	30 782	74 392	D
327	Nonmetallic mineral product manufacturing .....	—	37	7	993	41 023	814	1 760	34 636	99 850	83 225	187 755	D
3273	Cement and concrete product manufacturing .....	—	13	6	705	31 920	568	1 300	27 823	76 878	57 757	136 460	D
331	Primary metal manufacturing .....	—	'23	'15	'2 547	'98 142	'2 008	'4 101	'67 591	'222 405	'119 064	'342 783	'5 866
3315	Foundries .....	—	'16	'12	'1 876	'66 938	'1 507	'3 049	'48 620	'160 319	'79 354	'241 409	D
33152	Nonferrous metal foundries ....	—	'11	'10	g	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries .....	—	'6	'5	g	D	D	D	D	D	D	D	'1 762
332	Fabricated metal product manufacturing .....	—	'369	'126	'10 226	'413 835	'7 238	'14 627	'246 220	'939 770	'852 231	'1 796 285	'47 500
3321	Forging and stamping.....	1	27	17	1 092	41 580	799	1 698	25 732	83 921	63 485	146 137	2 839
33211	Forging and stamping.....	1	27	17	1 092	41 580	799	1 698	25 732	83 921	63 485	146 137	2 839
332116	Metal stamping .....	1	24	15	f	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	—	15	6	584	29 804	245	498	8 945	85 632	107 901	200 197	D
33221	Cutlery and handtool manufacturing .....	—	15	6	584	29 804	245	498	8 945	85 632	107 901	200 197	D
3323	Architectural and structural metals manufacturing .....	—	54	19	1 397	54 356	902	1 712	29 532	136 682	144 161	276 021	3 964
33232	Ornamental and architectural metal products manufacturing .....	—	40	14	962	36 819	626	1 126	19 043	98 922	85 766	180 456	3 475
332322	Sheet metal work manufacturing .....	—	23	10	753	27 335	503	864	14 586	81 493	72 213	149 398	2 992

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HENNEPIN—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	166	45	3 244	135 937	2 455	4 991	90 495	272 609	118 018	393 417	16 892
33271	Machine shops .....	1	127	21	1 675	72 039	1 205	2 473	44 735	149 686	58 574	211 002	10 028
332710	Machine shops .....	1	127	21	1 675	72 039	1 205	2 473	44 735	149 686	58 574	211 002	10 028
33272	Turned product and screw, nut, and bolt manufacturing .....	3	39	24	1 569	63 898	1 250	2 518	45 760	122 923	59 444	182 415	6 864
332721	Precision turned product manufacturing .....	2	33	21	1 229	50 894	1 005	2 120	38 170	90 475	45 344	136 045	D
3328	Coating, engraving, heat treating, and allied activities .....	1	52	23	2 078	68 057	1 615	3 260	45 707	127 154	65 744	193 214	13 434
33281	Coating, engraving, heat treating, and allied activities ..	1	52	23	2 078	68 057	1 615	3 260	45 707	127 154	65 744	193 214	13 434
332813	Electroplating, plating, polishing, anodizing, and coloring .....	1	27	13	1 468	45 748	1 148	2 351	31 096	78 466	50 702	129 181	5 458
3329	Other fabricated metal product manufacturing .....	—	37	13	1 507	71 496	972	1 911	37 390	147 417	106 801	254 878	7 859
33291	Metal valve manufacturing ....	—	9	5	803	34 695	578	1 182	21 991	63 998	55 411	122 341	4 406
332912	Fluid power valve and hose fitting manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	28	8	704	36 801	394	729	15 399	83 419	51 390	132 537	3 453
333	Machinery manufacturing .....	—	215	90	11 308	543 763	5 939	11 802	220 313	1 361 669	1 131 920	2 561 817	71 813
3331	Agriculture, construction, and mining machinery manufacturing .....	—	11	3	824	41 059	460	901	19 105	87 062	136 626	243 682	3 029
33312	Construction machinery manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	—	29	16	1 356	80 398	549	1 171	24 931	126 489	162 092	294 438	10 359
33329	Other industrial machinery manufacturing .....	—	20	11	984	61 525	325	687	15 040	99 052	119 474	219 479	8 922
3333	Commercial and service industry machinery manufacturing .....	—	30	16	2 193	108 828	1 130	2 197	41 361	420 143	250 456	669 662	18 840
33331	Commercial and service industry machinery manufacturing .....	—	30	16	2 193	108 828	1 130	2 197	41 361	420 143	250 456	669 662	18 840
333319	Other commercial and service industry machinery manufacturing .....	—	20	10	1 492	72 691	900	1 705	32 783	368 743	213 492	580 275	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	19	11	1 093	41 178	750	1 516	22 132	67 231	69 755	165 556	6 945
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	19	11	1 093	41 178	750	1 516	22 132	67 231	69 755	165 556	6 945
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	1	10	8	930	34 561	663	1 338	19 468	51 464	60 447	140 352	D
3335	Metalworking machinery manufacturing .....	—	57	12	923	47 039	541	1 020	22 807	85 722	45 249	133 156	2 136
33351	Metalworking machinery manufacturing .....	—	57	12	923	47 039	541	1 020	22 807	85 722	45 249	133 156	2 136
3339	Other general purpose machinery manufacturing .....	—	62	28	4 709	216 598	2 361	4 679	84 934	555 529	457 646	1 026 616	29 286
33391	Pump and compressor manufacturing .....	—	8	4	g	D	D	D	D	D	D	D	4 277
333911	Pump and pumping equipment manufacturing ..	—	4	3	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	42	19	3 448	150 326	1 651	3 212	52 589	352 235	270 924	628 095	24 613
333993	Packaging machinery manufacturing .....	—	13	7	1 021	38 862	316	655	12 478	57 032	59 061	115 588	5 394
333999	All other miscellaneous general purpose machinery manufacturing .....	—	20	7	1 876	86 171	1 011	1 904	29 427	248 742	162 994	416 143	18 040

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HENNEPIN—Con.</b>													
334	Computer and electronic product manufacturing .....	—	176	90	21 773	1 181 755	10 458	20 522	415 191	2 280 805	1 544 758	3 885 716	169 997
3341	Computer and peripheral equipment manufacturing .....	—	28	16	5 723	346 301	1 627	3 225	53 556	442 358	379 512	825 314	67 309
33411	Computer and peripheral equipment manufacturing ....	—	28	16	5 723	346 301	1 627	3 225	53 556	442 358	379 512	825 314	67 309
334112	Computer storage device manufacturing .....	2	4	3	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	—	13	8	2 632	149 698	629	1 278	22 331	362 580	238 657	601 372	D
3342	Communications equipment manufacturing .....	2	12	5	856	39 305	458	873	14 993	132 806	86 673	221 942	D
3344	Semiconductor and other electronic component manufacturing .....	—	49	23	3 342	178 287	1 944	3 696	80 750	433 493	241 775	689 483	45 115
33441	Semiconductor and other electronic component manufacturing .....	—	49	23	3 342	178 287	1 944	3 696	80 750	433 493	241 775	689 483	45 115
334412	Bare printed circuit board manufacturing .....	1	16	6	702	24 478	474	877	12 193	51 445	24 910	77 532	5 571
334413	Semiconductor and related device manufacturing .....	—	9	5	1 584	102 487	954	1 782	50 627	211 053	91 145	310 888	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	7	4	521	28 005	155	332	4 920	72 976	47 155	121 176	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	65	35	10 947	584 281	5 811	11 569	248 887	1 193 868	751 463	1 985 532	49 450
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	65	35	10 947	584 281	5 811	11 569	248 887	1 193 868	751 463	1 985 532	49 450
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	24	16	4 389	208 786	3 034	6 637	118 573	479 568	322 368	807 977	29 098
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	5	1	g	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	—	9	4	556	30 035	148	312	7 916	73 912	18 675	91 698	D
334519	Other measuring and controlling device manufacturing .....	—	8	4	1 861	105 955	549	901	22 207	182 389	209 836	396 531	D
3346	Manufacturing and reproducing magnetic and optical media .....	4	15	6	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ..	4	15	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	50	23	2 892	109 022	1 620	3 054	45 498	254 416	343 836	615 664	15 297
3353	Electrical equipment manufacturing .....	2	32	14	1 353	58 772	766	1 469	24 801	108 344	102 558	214 490	5 595
33531	Electrical equipment manufacturing .....	2	32	14	1 353	58 772	766	1 469	24 801	108 344	102 558	214 490	5 595
335314	Relay and industrial control manufacturing .....	1	18	7	755	33 245	347	671	9 295	57 217	63 919	120 018	3 141
3359	Other electrical equipment and component manufacturing .....	1	16	9	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	1	7	5	f	D	D	D	D	D	D	D	6 420
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	7	5	f	D	D	D	D	D	D	D	6 420
336	Transportation equipment manufacturing .....	2	31	10	1 007	38 134	728	1 376	26 370	84 597	67 620	156 165	6 009
3363	Motor vehicle parts manufacturing .....	4	17	5	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HENNEPIN—Con.</b>													
337	Furniture and related product manufacturing .....	—	128	32	2 693	89 823	1 868	3 408	51 752	197 752	150 927	349 388	4 851
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	79	12	1 363	41 736	1 007	1 964	27 138	92 925	65 485	158 174	D
33712	Household and institutional furniture manufacturing .....	—	35	7	1 053	32 305	805	1 565	21 552	73 799	56 784	130 346	1 490
337121	Upholstered household furniture manufacturing .....	—	16	2	504	12 426	415	777	9 255	31 049	33 338	64 385	D
3372	Office furniture (including fixtures) manufacturing .....	—	40	17	1 026	39 369	667	1 164	19 957	86 361	59 495	146 832	2 434
33721	Office furniture (including fixtures) manufacturing .....	—	40	17	1 026	39 369	667	1 164	19 957	86 361	59 495	146 832	2 434
339	Miscellaneous manufacturing .....	3	'240	'62	'8 216	'407 258	'3 828	'7 783	'123 693	'896 094	'383 840	'1 290 761	'70 906
3391	Medical equipment and supplies manufacturing .....	3	100	34	6 213	333 376	2 614	5 401	91 411	718 098	281 167	1 011 253	64 073
33911	Medical equipment and supplies manufacturing .....	3	100	34	6 213	333 376	2 614	5 401	91 411	718 098	281 167	1 011 253	64 073
339112	Surgical and medical instrument manufacturing ..	4	30	17	4 111	229 320	1 579	3 330	56 619	452 585	167 114	636 394	49 002
339113	Surgical appliance and supplies manufacturing .....	4	17	7	1 255	73 074	468	925	16 670	191 536	72 266	258 072	11 619
3399	Other miscellaneous manufacturing .....	3	'140	'28	'2 003	'73 882	'1 214	'2 382	'32 282	'177 996	'102 673	'279 508	'6 833
33995	Sign manufacturing .....	'5	'48	'12	'677	'25 639	'385	'679	'10 655	'52 496	'34 449	'86 883	'1 826
339950	Sign manufacturing .....	'5	'48	'12	'677	'25 639	'385	'679	'10 655	'52 496	'34 449	'86 883	'1 826
33999	All other miscellaneous manufacturing .....	2	45	11	898	33 150	594	1 256	16 130	68 943	40 602	109 289	4 157
<b>HOUSTON</b>													
31-33	Manufacturing .....	2	27	7	f	D	D	D	D	D	D	D	D
<b>HUBBARD</b>													
31-33	Manufacturing .....	—	34	5	1 026	27 001	847	1 571	19 373	97 050	105 506	202 789	5 805
311	Food manufacturing .....	—	4	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>ISANTI</b>													
31-33	Manufacturing .....	1	72	16	1 429	50 839	1 086	2 073	31 525	116 957	104 825	221 216	5 104
332	Fabricated metal product manufacturing .....	—	24	5	569	24 052	389	746	13 516	63 118	41 052	104 314	2 678
<b>ITASCA</b>													
31-33	Manufacturing .....	—	54	11	1 767	75 324	1 335	2 787	53 729	228 093	294 445	519 645	20 505
322	Paper manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>JACKSON</b>													
31-33	Manufacturing .....	—	12	5	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing ..	—	3	3	g	D	D	D	D	D	D	D	D
<b>KANABEC</b>													
31-33	Manufacturing .....	1	17	6	659	20 605	517	930	13 874	38 041	55 642	94 399	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KANDIYOHI</b>													
31-33	Manufacturing .....	1	64	19	2 909	80 753	2 119	4 134	42 209	232 399	280 909	510 357	5 564
311	Food manufacturing .....	-	11	4	1 920	49 927	1 510	3 017	28 089	135 616	189 808	322 688	1 597
3116	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>KOOCHICHING</b>													
31-33	Manufacturing .....	-	20	5	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>LE SUEUR</b>													
31-33	Manufacturing .....	1	48	16	2 742	90 280	2 292	4 489	66 633	557 357	428 263	982 946	10 096
311	Food manufacturing .....	4	8	6	915	27 223	774	1 614	21 782	128 511	151 076	278 818	D
331	Primary metal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LYON</b>													
31-33	Manufacturing .....	4	33	12	1 611	49 201	1 328	2 737	35 967	219 795	299 702	514 468	40 894
311	Food manufacturing .....	6	7	4	809	27 537	687	1 493	20 663	139 408	226 598	360 444	D
<b>MCLEOD</b>													
31-33	Manufacturing .....	-	73	32	i	D	D	D	D	D	D	D	141 874
311	Food manufacturing .....	-	10	5	622	19 261	526	1 189	14 443	136 982	108 643	243 652	12 323
321	Wood product manufacturing .....	-	5	3	627	24 894	356	718	13 079	27 400	30 557	58 684	D
322	Paper manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	2	6	4	2 404	96 844	1 653	3 565	56 660	45 692	19 161	66 523	D
3341	Computer and peripheral equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>MARTIN</b>													
31-33	Manufacturing .....	-	45	13	1 792	57 303	1 238	2 234	32 933	146 564	117 222	270 854	D
<b>MEEKER</b>													
31-33	Manufacturing .....	-	53	18	1 384	48 885	892	1 727	24 048	145 121	358 485	504 664	12 901

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MILLE LACS</b>													
31-33	Manufacturing .....	1	56	18	2 107	61 130	1 686	3 435	44 077	118 371	135 837	253 398	5 145
336	Transportation equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	7	4	627	18 674	511	1 012	15 004	35 514	19 410	55 190	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	4	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	-	3	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	-	3	1	f	D	D	D	D	D	D	D	D
<b>MORRISON</b>													
31-33	Manufacturing .....	1	54	13	2 216	58 260	1 724	3 411	44 469	163 680	240 275	402 219	11 978
311	Food manufacturing .....	3	11	4	544	14 230	486	959	11 730	33 327	61 525	94 010	3 405
336	Transportation equipment manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
336612	Boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>MOWER</b>													
31-33	Manufacturing .....	-	36	12	4 347	176 193	3 109	6 279	90 873	733 771	704 525	1 447 000	10 877
311	Food manufacturing .....	-	8	3	h	D	D	D	D	D	D	D	7 729
3116	Animal slaughtering and processing .....	-	3	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	3	2	h	D	D	D	D	D	D	D	D
<b>NICOLLET</b>													
31-33	Manufacturing .....	-	40	18	4 634	119 167	3 266	6 083	72 585	299 474	301 249	604 553	8 055
323	Printing and related support activities .....	-	9	8	h	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	9	8	h	D	D	D	D	D	D	D	D
32311	Printing .....	-	9	8	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	7	7	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	3	3	f	D	D	D	D	D	D	D	D
<b>NOBLES</b>													
31-33	Manufacturing .....	-	27	7	2 330	71 836	1 868	4 071	51 593	185 374	555 381	753 777	6 288
311	Food manufacturing .....	-	7	2	g	D	D	D	D	D	D	D	3 903
3116	Animal slaughtering and processing .....	-	3	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OLMSTED</b>													
31-33	Manufacturing .....	-	98	41	12 044	603 895	4 636	9 292	146 407	1 340 537	2 198 975	3 457 340	D
311	Food manufacturing .....	-	14	11	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	12	6	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	12	6	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	12	6	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	8	4	i	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	-	2	1	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	-	2	1	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	-	2	1	i	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	2	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
33512	Lighting fixture manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>OTTER TAIL</b>													
31-33	Manufacturing .....	-	86	27	3 572	102 730	2 805	5 337	69 239	312 419	286 866	603 187	27 851
311	Food manufacturing .....	-	15	8	1 680	44 478	1 283	2 588	28 270	160 366	139 821	304 520	11 153
3116	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>PENNINGTON</b>													
31-33	Manufacturing .....	-	24	7	1 766	64 233	1 081	1 780	33 579	172 100	459 899	622 192	27 755
336	Transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
<b>PIPESTONE</b>													
31-33	Manufacturing .....	-	13	3	596	17 081	471	1 039	12 813	79 542	63 974	141 482	8 808

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>POLK</b>													
31-33	Manufacturing .....	-	37	11	1 523	51 459	1 189	2 117	36 601	235 776	311 802	568 003	8 246
311	Food manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing ...	-	2	2	f	D	D	D	D	D	D	D	D
<b>POPE</b>													
31-33	Manufacturing .....	1	30	7	722	23 009	527	1 034	13 807	28 211	66 714	97 849	3 125
333	Machinery manufacturing .....	-	8	7	600	18 658	434	867	10 873	19 019	56 838	78 711	2 535
<b>RAMSEY</b>													
31-33	Manufacturing .....	-	700	255	31 563	1 414 738	18 415	36 345	705 019	4 900 623	3 885 250	8 766 716	179 904
311	Food manufacturing .....	-	46	19	2 309	76 117	1 101	2 055	34 429	172 889	241 697	414 096	7 743
3118	Bakeries and tortilla manufacturing .....	-	22	11	1 125	30 124	511	946	15 751	53 024	47 215	100 323	2 540
31181	Bread and bakery product manufacturing .....	1	20	9	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	8	4	747	21 869	257	465	10 023	30 544	32 091	62 774	1 886
3119	Other food manufacturing .....	-	6	2	553	21 195	199	352	5 505	45 509	38 250	83 592	D
322	Paper manufacturing .....	-	18	17	3 246	117 084	1 998	4 209	78 103	309 234	304 106	625 672	10 827
3222	Converted paper product manufacturing .....	-	16	15	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	11	11	g	D	D	D	D	D	D	D	5 575
322211	Corrugated and solid fiber box manufacturing .....	-	6	6	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing .....	-	5	5	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	-	2	2	g	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	133	38	4 780	181 913	2 770	5 089	96 496	365 157	256 743	618 746	15 039
3231	Printing and related support activities .....	-	133	38	4 780	181 913	2 770	5 089	96 496	365 157	256 743	618 746	15 039
32311	Printing .....	-	120	33	4 496	170 795	2 577	4 684	89 908	339 813	250 027	586 843	14 024
323110	Commercial lithographic printing .....	-	53	18	2 752	110 589	1 552	2 765	58 977	179 035	162 284	337 323	8 553
323113	Commercial screen printing ..	-	18	4	773	23 999	364	675	10 939	72 313	46 226	118 029	2 330
325	Chemical manufacturing .....	3	29	9	629	29 733	343	636	13 879	108 636	134 781	237 692	3 590
326	Plastics and rubber products manufacturing .....	3	24	8	885	35 344	707	1 371	22 639	73 827	52 976	126 641	11 665
3261	Plastics product manufacturing ..	3	20	8	867	34 571	696	1 350	22 334	71 950	51 512	123 300	D
32619	Other plastics product manufacturing .....	4	13	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	4	12	5	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	10	6	823	38 813	655	1 337	29 987	67 198	108 432	173 157	D
332	Fabricated metal product manufacturing .....	-	120	45	2 665	113 120	1 929	3 706	71 087	271 370	185 894	453 196	13 219
3323	Architectural and structural metals manufacturing .....	-	22	11	531	20 576	386	607	12 377	54 319	44 123	98 773	2 787
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	40	13	743	33 453	571	1 087	24 331	70 043	25 510	92 594	2 556
33271	Machine shops .....	2	36	10	635	29 862	479	909	21 544	64 319	23 069	84 298	2 116
332710	Machine shops .....	2	36	10	635	29 862	479	909	21 544	64 319	23 069	84 298	2 116
333	Machinery manufacturing .....	3	55	23	2 596	117 734	1 559	3 097	57 033	252 409	187 378	438 726	8 366
3333	Commercial and service industry machinery manufacturing .....	6	5	3	541	21 873	385	714	13 036	62 063	54 975	117 264	2 990
33331	Commercial and service industry machinery manufacturing .....	6	5	3	541	21 873	385	714	13 036	62 063	54 975	117 264	2 990
3339	Other general purpose machinery manufacturing .....	2	18	6	852	42 209	411	863	14 302	94 596	70 520	164 130	2 577

See footnotes at end of table.



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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>RAMSEY—Con.</b>													
334	Computer and electronic product manufacturing .....	—	52	28	6 790	365 413	2 784	5 728	92 814	2 188 784	566 495	2 751 765	69 165
3344	Semiconductor and other electronic component manufacturing .....	—	17	11	1 743	63 817	1 352	2 690	39 274	256 861	205 905	456 880	11 063
33441	Semiconductor and other electronic component manufacturing .....	—	17	11	1 743	63 817	1 352	2 690	39 274	256 861	205 905	456 880	11 063
334412	Bare printed circuit board manufacturing .....	—	7	6	f	D	D	D	D	D	D	D	5 338
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	25	15	4 445	275 172	1 127	2 391	44 852	1 854 811	300 920	2 159 650	56 696
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	25	15	4 445	275 172	1 127	2 391	44 852	1 854 811	300 920	2 159 650	56 696
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	7	6	3 246	208 302	683	1 481	26 840	1 650 853	199 751	1 852 211	D
334519	Other measuring and controlling device manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	9	6	g	D	D	D	D	D	D	D	11 832
3361	Motor vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	90	31	2 974	134 570	1 465	3 038	49 054	292 857	130 811	423 172	16 659
3391	Medical equipment and supplies manufacturing .....	1	49	19	2 114	105 218	950	2 022	33 465	234 522	89 923	323 666	14 563
33911	Medical equipment and supplies manufacturing .....	1	49	19	2 114	105 218	950	2 022	33 465	234 522	89 923	323 666	14 563
339112	Surgical and medical instrument manufacturing ..	1	14	7	959	54 076	334	750	10 891	136 408	67 122	201 571	7 509
3399	Other miscellaneous manufacturing .....	4	41	12	860	29 352	515	1 016	15 589	58 335	40 888	99 506	2 096
33995	Sign manufacturing .....	4	21	9	656	23 969	353	701	12 151	47 211	36 124	83 354	1 695
339950	Sign manufacturing .....	4	21	9	656	23 969	353	701	12 151	47 211	36 124	83 354	1 695
<b>REDWOOD</b>													
31-33	Manufacturing .....	—	25	8	1 044	31 506	760	1 451	19 233	60 253	54 247	115 188	3 667
<b>RENVILLE</b>													
31-33	Manufacturing .....	—	33	9	991	34 786	745	1 647	24 430	172 907	183 316	347 220	11 470
<b>RICE</b>													
31-33	Manufacturing .....	—	85	23	4 647	170 708	3 579	7 007	126 333	566 649	562 359	1 107 274	30 648
311	Food manufacturing .....	—	15	5	2 090	79 931	1 559	3 280	61 127	350 263	339 520	667 073	20 984
3112	Grain and oilseed milling .....	—	4	2	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	3	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	12	5	732	26 567	635	1 081	22 138	44 715	83 946	129 535	1 208
333	Machinery manufacturing .....	—	15	3	907	32 380	689	1 319	21 836	83 024	56 652	140 840	2 309
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration 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.**

[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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ROSEAU</b>													
31-33	Manufacturing .....	-	21	6	h	D	D	D	D	D	D	D	9 788
321	Wood product manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
32191	Millwork .....	-	1	1	h	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	-	3	2	g	D	D	D	D	D	D	D	D
<b>ST. LOUIS</b>													
31-33	Manufacturing .....	1	'231	'58	'5 644	'201 549	3 847	7 475	117 776	'484 921	'561 042	'1 050 486	D
311	Food manufacturing .....	-	21	5	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	21	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	41	10	748	27 449	525	1 077	16 843	45 087	51 417	97 953	D
333	Machinery manufacturing .....	2	18	6	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	'4	'10	'5	'915	'25 804	585	1 170	11 357	'52 760	'57 738	'111 019	D
3344	Semiconductor and other electronic component manufacturing .....	4	4	4	878	24 538	569	1 151	11 073	50 906	56 499	107 917	D
33441	Semiconductor and other electronic component manufacturing .....	4	4	4	878	24 538	569	1 151	11 073	50 906	56 499	107 917	D
334412	Bare printed circuit board manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>SCOTT</b>													
31-33	Manufacturing .....	1	160	41	5 067	188 283	3 340	6 598	117 664	504 749	478 607	968 576	47 662
327	Nonmetallic mineral product manufacturing .....	-	11	5	776	31 844	470	898	19 755	87 922	52 951	140 349	4 479
3273	Cement and concrete product manufacturing .....	-	9	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	44	6	1 401	47 956	963	1 694	31 850	177 072	69 222	244 829	7 827
3321	Forging and stamping.....	-	3	2	f	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	-	3	2	f	D	D	D	D	D	D	D	D
332116	Metal stamping .....	-	3	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	14	6	903	27 297	520	1 078	16 390	26 260	48 864	74 442	5 807
<b>SHERBURNE</b>													
31-33	Manufacturing .....	1	125	33	2 192	83 779	1 634	3 170	55 598	221 299	126 505	342 019	16 796
332	Fabricated metal product manufacturing .....	1	46	13	731	31 165	525	987	20 578	67 397	26 961	92 926	5 670
<b>SIBLEY</b>													
31-33	Manufacturing .....	-	25	7	883	25 789	780	1 551	21 666	133 198	188 456	321 020	3 434
311	Food 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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STEARNS</b>													
31-33	Manufacturing .....	-	255	76	'12 634	'440 928	'10 032	'19 839	'321 530	1 181 105	1 330 213	2 515 958	91 932
311	Food manufacturing .....	-	33	12	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	8	4	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	8	4	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	30	9	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	30	9	g	D	D	D	D	D	D	D	D
32311	Printing .....	-	27	9	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	12	4	g	D	D	D	D	D	D	D	D
323118	Blankbook, looseleaf binders, and devices manufacturing ..	-	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	30	9	g	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	15	6	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	15	6	f	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing .....	-	14	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	32	7	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	19	7	'649	'28 203	'418	'774	'15 360	60 096	56 333	116 696	D
335	Electrical equipment, appliance, and component manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	13	6	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
<b>STEELE</b>													
31-33	Manufacturing .....	1	75	24	5 965	236 025	4 181	8 529	127 365	561 382	622 685	1 186 976	30 147
327	Nonmetallic mineral product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	19	5	2 207	90 003	1 412	2 750	37 976	210 195	343 717	552 458	6 298
3322	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	2	1	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STEELE—Con.</b>													
337	Furniture and related product manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>TODD</b>													
31-33	Manufacturing .....	—	44	12	1 643	53 438	1 337	2 643	40 827	140 734	235 633	372 177	8 187
311	Food manufacturing .....	—	6	4	518	16 108	444	968	13 845	57 773	183 803	237 954	5 788
323	Printing and related support activities .....	—	3	1	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	—	3	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>WABASHA</b>													
31-33	Manufacturing .....	—	34	11	1 865	57 955	1 401	2 841	40 788	199 028	264 248	462 895	D
<b>WADENA</b>													
31-33	Manufacturing .....	—	20	10	715	20 542	515	960	13 686	49 482	30 243	79 279	2 270
<b>WASECA</b>													
31-33	Manufacturing .....	4	28	13	2 297	80 725	1 839	3 671	59 686	307 642	202 780	511 429	34 213
323	Printing and related support activities .....	9	8	4	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	9	8	4	g	D	D	D	D	D	D	D	D
32311	Printing .....	9	7	3	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	9	6	3	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	3	3	f	D	D	D	D	D	D	D	D
<b>WASHINGTON</b>													
31-33	Manufacturing .....	—	229	65	11 165	573 869	7 570	14 227	348 727	1 424 628	1 978 881	3 427 144	125 894
321	Wood product manufacturing .....	—	16	7	h	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	—	15	6	h	D	D	D	D	D	D	D	D
32191	Millwork .....	—	6	2	h	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	12	6	1 151	65 683	590	1 178	29 705	324 166	113 932	434 839	D
3259	Other chemical product and preparation manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	15	7	978	35 096	736	1 445	22 741	98 780	80 874	182 691	D
3261	Plastics product manufacturing .....	—	15	7	978	35 096	736	1 445	22 741	98 780	80 874	182 691	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	—	3	3	710	26 434	549	1 080	17 999	84 555	67 411	155 686	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing .....	—	3	3	710	26 434	549	1 080	17 999	84 555	67 411	155 686	D
332	Fabricated metal product manufacturing .....	1	46	13	852	35 081	627	1 243	20 716	75 525	52 093	128 375	3 962

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WASHINGTON—Con.</b>													
333	Machinery manufacturing .....	—	26	8	1 401	68 349	870	1 906	34 487	168 221	158 052	329 392	3 250
3333	Commercial and service industry machinery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	—	13	5	666	36 818	419	963	19 876	48 653	15 756	62 759	972
33351	Metalworking machinery manufacturing .....	—	13	5	666	36 818	419	963	19 876	48 653	15 756	62 759	972
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
<b>WATONWAN</b>													
31-33	Manufacturing .....	—	18	7	1 047	26 290	857	1 752	20 002	64 510	89 242	154 609	4 295
311	Food manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	3	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	3	3	f	D	D	D	D	D	D	D	D
<b>WINONA</b>													
31-33	Manufacturing .....	—	114	44	5 583	178 280	3 976	7 612	107 414	484 631	532 493	1 020 812	26 242
311	Food manufacturing .....	2	13	5	558	17 974	442	954	12 772	89 667	110 554	200 437	10 962
332	Fabricated metal product manufacturing .....	—	15	4	534	16 387	370	739	9 719	41 747	25 075	68 086	1 614
334	Computer and electronic product manufacturing .....	—	5	3	1 616	46 476	1 244	2 227	32 009	132 832	200 250	333 509	2 690
3344	Semiconductor and other electronic component manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	5	4	545	20 403	251	482	6 865	46 195	48 410	95 250	D
<b>WRIGHT</b>													
31-33	Manufacturing .....	1	199	56	5 250	176 175	3 836	7 151	103 686	420 858	341 490	758 418	28 682
311	Food manufacturing .....	1	13	6	813	27 692	619	1 089	15 333	95 471	108 462	203 240	7 495
332	Fabricated metal product manufacturing .....	1	49	12	909	34 878	619	1 156	19 037	71 724	50 940	120 927	1 854
337	Furniture and related product manufacturing .....	—	20	3	555	14 931	444	793	10 116	35 040	20 991	55 509	1 085
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	18	3	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	—	14	3	525	14 224	418	745	9 574	33 678	19 824	52 988	1 047
337110	Wood kitchen cabinet and countertop manufacturing ..	—	14	3	525	14 224	418	745	9 574	33 678	19 824	52 988	1 047
339	Miscellaneous manufacturing .....	—	14	1	721	21 410	509	1 003	11 667	49 558	25 355	74 997	D
3399	Other miscellaneous manufacturing .....	—	12	1	f	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries 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.

<sup>4</sup>Number 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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALBERT LEA</b>													
31-33	Manufacturing .....	2	46	19	2 192	75 303	1 645	3 076	52 977	228 511	289 500	510 486	11 746
311	Food manufacturing .....	2	6	4	f	D	D	D	D	D	D	D	D
<b>ALEXANDRIA</b>													
31-33	Manufacturing .....	1	38	17	2 033	67 092	1 592	3 137	46 174	273 112	153 844	426 663	16 431
333	Machinery manufacturing .....	6	5	4	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	7	3	3	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing .....	7	3	3	f	D	D	D	D	D	D	D	D
<b>ANOKA</b>													
31-33	Manufacturing .....	1	53	20	4 441	195 976	2 834	5 704	111 541	481 240	275 770	749 617	12 260
332	Fabricated metal product manufacturing .....	-	11	4	1 055	42 804	657	1 434	28 091	110 237	70 663	167 453	1 517
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
332992	Small arms ammunition manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	9	5	881	45 699	427	728	21 119	35 804	54 287	92 513	859
335	Electrical equipment, appliance, and component manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>APPLE VALLEY</b>													
31-33	Manufacturing .....	1	17	5	f	D	D	D	D	D	D	D	3 583
<b>ARDEN HILLS</b>													
31-33	Manufacturing .....	-	25	13	4 303	247 468	1 666	3 601	58 865	1 777 211	409 956	2 184 483	69 018
334	Computer and electronic product manufacturing .....	-	8	5	h	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>AUSTIN</b>													
31-33	Manufacturing .....	-	25	8	h	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	6	3	h	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	2	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	2	h	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BAYPORT</b>													
31-33	Manufacturing .....	-	2	1	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
32191	Millwork .....	-	1	1	h	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>BLAINE</b>													
31-33	Manufacturing .....	1	149	39	2 992	'125 818	'1 947	3 803	'72 049	317 293	205 902	529 836	22 371
332	Fabricated metal product manufacturing .....	1	'51	'9	'886	'36 846	'643	'1 308	'23 275	'67 342	'32 452	'102 423	'8 017
333	Machinery manufacturing .....	2	27	9	632	31 845	420	772	18 704	53 137	40 609	96 559	3 523
<b>BLOOMINGTON</b>													
31-33	Manufacturing .....	-	156	50	7 666	398 189	4 139	8 139	137 970	491 259	426 731	948 245	84 442
332	Fabricated metal product manufacturing .....	1	32	13	772	29 637	557	1 021	17 793	70 597	29 607	100 377	5 094
334	Computer and electronic product manufacturing .....	-	17	9	4 434	267 985	1 977	3 830	70 504	216 252	224 316	442 194	66 261
3341	Computer and peripheral equipment manufacturing .....	-	4	2	h	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	-	4	2	h	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	6	3	935	56 310	616	1 099	27 193	84 392	62 613	147 943	D
33441	Semiconductor and other electronic component manufacturing .....	-	6	3	935	56 310	616	1 099	27 193	84 392	62 613	147 943	D
334413	Semiconductor and related device manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BLUE EARTH</b>													
31-33	Manufacturing .....	-	10	5	704	19 076	557	1 011	12 414	73 637	42 005	115 789	D
<b>BRAINERD</b>													
31-33	Manufacturing .....	1	38	13	768	24 053	544	1 033	14 391	52 815	56 304	108 259	8 662
<b>BROOKLYN CENTER</b>													
31-33	Manufacturing .....	2	44	17	1 840	74 341	1 258	2 585	41 702	120 752	120 813	241 533	12 622
334	Computer and electronic product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
<b>BROOKLYN PARK</b>													
31-33	Manufacturing .....	1	121	49	5 838	259 772	3 488	6 851	125 703	649 092	628 579	1 298 855	29 708
323	Printing and related support activities .....	-	17	7	1 435	59 670	836	1 763	30 749	149 252	125 134	273 099	4 947
3231	Printing and related support activities .....	-	17	7	1 435	59 670	836	1 763	30 749	149 252	125 134	273 099	4 947
32311	Printing .....	-	15	7	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	10	5	1 128	49 620	613	1 295	24 399	127 883	112 833	239 456	D
332	Fabricated metal product manufacturing .....	-	32	11	655	29 052	453	930	17 036	62 829	27 874	90 581	2 221

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BROOKLYN PARK—Con.</b>													
333	Machinery manufacturing .....	-	16	7	1 487	74 140	765	1 499	29 907	192 017	211 406	424 448	8 205
3331	Agriculture, construction, and mining machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	4	3	563	29 824	260	499	10 135	113 600	78 593	192 812	2 034
33399	All other general purpose machinery manufacturing ....	-	4	3	563	29 824	260	499	10 135	113 600	78 593	192 812	2 034
333999	All other miscellaneous general purpose machinery manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>BUFFALO</b>													
31-33	Manufacturing .....	2	22	7	f	D	D	D	D	D	D	D	1 870
<b>BURNSVILLE</b>													
31-33	Manufacturing .....	1	'117	'39	'3 736	'142 262	'2 124	'4 217	'57 069	'424 339	'321 291	'743 205	'18 817
334	Computer and electronic product manufacturing .....	1	7	4	964	41 895	352	712	6 315	131 281	47 669	180 178	4 586
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	19	9	599	17 724	341	619	8 134	50 387	51 277	101 695	1 969
<b>CAMBRIDGE</b>													
31-33	Manufacturing .....	-	20	10	957	36 183	724	1 439	22 536	85 771	59 641	144 862	3 074
<b>CANNON FALLS</b>													
31-33	Manufacturing .....	-	18	6	783	27 031	605	1 135	18 579	75 506	48 257	125 649	3 725
<b>CHANHASSEN</b>													
31-33	Manufacturing .....	-	36	22	3 975	172 848	2 556	5 380	100 905	429 609	321 798	751 005	26 561
311	Food manufacturing .....	1	4	3	f	D	D	D	D	D	D	D	5 279
3118	Bakeries and tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	5	4	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	5	4	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	4	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	4	3	g	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	-	1	1	g	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CHASKA</b>													
31-33	Manufacturing .....	-	62	39	5 766	232 111	3 649	7 041	111 827	734 688	402 276	1 115 298	54 430
311	Food manufacturing .....	2	8	5	703	20 525	484	979	12 017	44 104	87 168	133 443	D
326	Plastics and rubber products manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	5	4	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	11	8	534	24 544	362	715	13 497	46 948	25 065	70 861	2 036
333	Machinery manufacturing .....	-	8	5	828	46 332	373	791	12 391	102 037	72 255	169 934	3 250
334	Computer and electronic product manufacturing .....	-	7	5	679	31 693	332	588	13 738	196 375	46 333	242 896	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>CLOQUET</b>													
31-33	Manufacturing .....	-	13	4	1 305	60 432	989	2 127	42 175	240 073	175 985	384 437	D
327	Nonmetallic mineral product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>COLD SPRING</b>													
31-33	Manufacturing .....	-	11	6	1 488	52 613	1 330	2 633	46 894	145 329	104 800	250 792	D
311	Food manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>COLUMBIA HEIGHTS</b>													
31-33	Manufacturing .....	1	35	3	765	32 716	336	583	8 363	62 740	29 161	98 503	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>COON RAPIDS</b>													
31-33	Manufacturing .....	-	60	24	3 203	151 716	1 982	4 211	73 554	428 758	220 632	654 464	19 095
323	Printing and related support activities .....	3	8	4	515	23 190	406	800	15 887	61 180	31 838	93 165	1 533
3231	Printing and related support activities .....	3	8	4	515	23 190	406	800	15 887	61 180	31 838	93 165	1 533
332	Fabricated metal product manufacturing .....	1	19	6	768	31 176	610	1 365	23 453	68 439	33 476	101 599	6 663
334	Computer and electronic product manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>COTTAGE GROVE</b>													
31-33	Manufacturing .....	-	13	4	1 418	71 088	919	2 023	39 984	322 974	142 601	463 875	55 481
325	Chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CROOKSTON</b>													
31-33	Manufacturing .....	-	11	4	716	21 408	512	867	13 246	65 011	132 753	209 536	1 430
<b>DELANO</b>													
31-33	Manufacturing .....	1	19	6	966	30 695	685	1 387	17 090	69 158	40 910	110 530	9 105
339	Miscellaneous manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DETROIT LAKES</b>													
31-33	Manufacturing .....	-	21	9	1 178	37 612	885	1 751	25 358	106 941	64 031	167 345	21 391
332	Fabricated metal product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
<b>DULUTH</b>													
31-33	Manufacturing .....	-	91	28	2 738	112 019	1 822	3 464	64 632	279 211	134 648	623 154	D
<b>EAGAN</b>													
31-33	Manufacturing .....	1	108	39	3 647	143 508	2 521	4 947	80 448	403 918	412 062	825 622	16 752
334	Computer and electronic product manufacturing .....	-	10	6	f	D	D	D	D	D	D	D	1 660

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>EDEN PRAIRIE</b>													
31-33	Manufacturing .....	1	'133	'60	'10 242	'503 731	'5 000	'9 953	'189 268	'1 089 116	'924 042	'2 027 120	'89 287
311	Food manufacturing .....	4	4	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	29	9	1 156	51 061	819	1 608	32 096	109 236	62 250	170 329	5 537
3231	Printing and related support activities .....	—	29	9	1 156	51 061	819	1 608	32 096	109 236	62 250	170 329	5 537
32311	Printing .....	—	28	8	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	12	4	612	29 835	432	840	18 259	56 007	27 566	82 626	4 160
333	Machinery manufacturing .....	1	12	7	700	36 236	325	638	11 680	64 941	38 724	103 734	1 561
334	Computer and electronic product manufacturing .....	—	32	19	4 528	258 111	1 899	3 879	86 571	488 771	440 005	932 624	38 629
3341	Computer and peripheral equipment manufacturing .....	1	8	6	f	D	D	D	D	D	D	D	2 857
33411	Computer and peripheral equipment manufacturing ....	1	8	6	f	D	D	D	D	D	D	D	2 857
334119	Other computer peripheral equipment manufacturing ..	—	3	3	526	19 732	262	554	6 215	64 353	64 784	128 169	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	13	8	3 399	205 699	1 424	2 924	74 280	348 424	317 035	669 226	18 733
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	13	8	3 399	205 699	1 424	2 924	74 280	348 424	317 035	669 226	18 733
334510	Electromedical and electrotherapeutic apparatus manufacturing...	2	5	4	1 045	67 869	709	1 674	42 262	92 196	81 775	174 989	9 497
334519	Other measuring and controlling device manufacturing .....	—	3	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	8	4	904	29 058	335	525	6 983	44 408	121 403	182 822	5 041
3359	Other electrical equipment and component manufacturing .....	—	3	2	570	13 852	218	296	4 033	36 908	93 264	146 623	D
33599	All other electrical equipment and component manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	—	2	2	f	D	D	D	D	D	D	D	D
<b>EDINA</b>													
31-33	Manufacturing .....	2	80	16	2 703	101 054	1 878	3 671	56 302	417 851	169 956	589 487	36 234
311	Food manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	1	1	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	1 004
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	1 004
33712	Household and institutional furniture manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
<b>ELK RIVER</b>													
31-33	Manufacturing .....	2	51	17	1 232	47 746	896	1 776	30 926	103 286	69 296	169 435	5 180
<b>FAIRMONT</b>													
31-33	Manufacturing .....	—	26	9	1 520	50 789	996	1 808	27 594	131 529	101 037	239 335	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FARIBAULT</b>													
31-33	Manufacturing .....	-	40	18	3 490	115 363	2 667	5 236	85 064	207 328	376 948	586 326	D
311	Food manufacturing .....	-	10	4	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	6	5	694	25 357	601	1 013	21 158	41 703	82 611	125 159	D
333	Machinery manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FARMINGTON</b>													
31-33	Manufacturing .....	-	17	9	653	23 805	513	1 068	16 049	69 258	73 015	142 107	4 078
<b>FERGUS FALLS</b>													
31-33	Manufacturing .....	-	35	14	g	D	D	D	D	D	D	D	11 728
<b>FOREST LAKE</b>													
31-33	Manufacturing .....	2	38	10	602	18 931	472	957	12 921	44 176	25 834	70 341	1 287
<b>FRIDLEY</b>													
31-33	Manufacturing .....	-	127	58	7 913	375 693	3 932	7 809	138 518	941 292	862 277	1 794 416	27 565
332	Fabricated metal product manufacturing .....	-	54	25	3 153	178 091	1 151	2 418	41 997	436 375	173 627	608 087	10 456
3329	Other fabricated metal product manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	3	17	8	724	29 772	461	941	15 914	57 281	60 845	116 104	1 304
334	Computer and electronic product manufacturing .....	-	8	4	1 027	38 345	567	1 261	16 307	78 342	25 026	105 711	2 349
3344	Semiconductor and other electronic component manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>GLENCOE</b>													
31-33	Manufacturing .....	2	8	5	585	16 672	475	966	12 111	82 870	53 432	136 533	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GOLDEN VALLEY</b>													
31-33	Manufacturing .....	-	66	25	4 179	204 456	2 386	4 496	92 637	693 131	279 546	1 019 788	23 832
322	Paper manufacturing .....	-	7	4	730	29 025	506	1 026	17 702	50 987	76 431	127 546	3 660
3222	Converted paper product manufacturing .....	-	7	4	730	29 025	506	1 026	17 702	50 987	76 431	127 546	3 660
32221	Paperboard container manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	8	5	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	4	3	1 752	100 506	908	1 691	41 300	260 325	58 030	365 614	5 330
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>GOODVIEW</b>													
31-33	Manufacturing .....	-	17	8	1 334	40 646	1 039	1 730	28 288	110 355	157 820	268 784	3 154
334	Computer and electronic product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>GRAND RAPIDS</b>													
31-33	Manufacturing .....	-	18	3	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>GRANT</b>													
31-33	Manufacturing .....	-	10	3	621	19 595	363	794	9 472	51 002	22 903	74 319	6 139
<b>HASTINGS</b>													
31-33	Manufacturing .....	-	18	13	1 716	63 470	1 141	2 365	32 814	136 693	190 785	329 663	6 927
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	-	1	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
<b>HIBBING</b>													
31-33	Manufacturing .....	3	24	11	1 467	43 930	959	1 991	22 381	96 232	85 938	182 865	D
334	Computer and electronic product manufacturing .....	4	4	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	4	3	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	4	3	3	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HOPKINS</b>													
31-33	Manufacturing .....	1	49	12	1 374	54 258	904	1 718	28 141	130 241	101 249	231 133	2 840
<b>HUGO</b>													
31-33	Manufacturing .....	1	17	6	675	37 063	415	927	18 330	59 921	39 618	97 570	1 723
<b>HUTCHINSON</b>													
31-33	Manufacturing .....	-	27	15	h	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	-	2	2	g	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>INTERNATIONAL FALLS</b>													
31-33	Manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>INVER GROVE HEIGHTS</b>													
31-33	Manufacturing .....	-	28	11	g	D	D	D	D	D	D	D	56 617
324	Petroleum and coal products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>JACKSON</b>													
31-33	Manufacturing .....	-	8	4	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing ..	-	3	3	g	D	D	D	D	D	D	D	D
<b>LAKE CITY</b>													
31-33	Manufacturing .....	-	14	6	1 198	41 559	862	1 852	29 587	147 674	143 244	291 497	7 951
<b>LAKEVILLE</b>													
31-33	Manufacturing .....	1	72	24	3 113	115 833	2 407	4 993	79 066	325 567	236 197	557 938	20 915
311	Food manufacturing .....	2	7	5	1 446	45 308	1 276	2 741	39 442	154 745	96 276	251 025	13 370
3113	Sugar and confectionery product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LE SUEUR</b>													
31-33	Manufacturing .....	1	14	7	1 414	50 685	1 232	2 489	41 212	412 249	344 960	754 484	4 547
331	Primary metal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	1	1	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting).....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LINO LAKES</b>													
31-33	Manufacturing .....	1	26	8	1 125	41 046	775	1 413	21 731	79 193	61 906	138 030	8 396

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LITCHFIELD</b>													
31-33	Manufacturing .....	-	13	6	667	25 937	399	798	11 456	91 340	319 779	412 096	9 670
<b>LITTLE FALLS</b>													
31-33	Manufacturing .....	-	21	9	1 594	42 443	1 176	2 335	31 662	130 182	185 696	315 484	8 358
336	Transportation equipment manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
336612	Boat building .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>LONG PRAIRIE</b>													
31-33	Manufacturing .....	-	12	5	1 144	38 544	932	1 906	29 368	105 567	221 360	323 746	6 876
323	Printing and related support activities .....	-	3	1	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	3	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MANKATO</b>													
31-33	Manufacturing .....	2	53	28	2 761	101 032	1 945	3 728	60 327	542 756	1 128 955	1 672 299	27 989
311	Food manufacturing .....	2	12	9	f	D	D	D	D	D	D	D	D
<b>MAPLE GROVE</b>													
31-33	Manufacturing .....	-	113	35	6 228	305 279	3 385	6 647	126 835	588 163	377 410	987 955	36 116
323	Printing and related support activities .....	-	15	5	1 051	36 785	868	1 511	27 389	79 860	84 957	160 533	4 767
3231	Printing and related support activities .....	-	15	5	1 051	36 785	868	1 511	27 389	79 860	84 957	160 533	4 767
32311	Printing .....	-	13	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	8	3	985	34 758	823	1 422	26 177	76 229	83 097	155 042	4 404
333	Machinery manufacturing .....	3	20	7	639	27 796	430	789	17 640	56 869	32 612	91 243	1 546
339	Miscellaneous manufacturing .....	-	12	4	2 611	149 474	914	1 996	34 026	209 297	43 810	267 750	20 923
3391	Medical equipment and supplies manufacturing .....	-	6	3	2 561	147 983	887	1 952	33 570	205 383	40 264	260 337	20 916
33911	Medical equipment and supplies manufacturing .....	-	6	3	2 561	147 983	887	1 952	33 570	205 383	40 264	260 337	20 916
339112	Surgical and medical instrument manufacturing ..	-	2	2	g	D	D	D	D	D	D	D	D
<b>MAPLEWOOD</b>													
31-33	Manufacturing .....	1	30	8	573	22 519	379	758	14 185	51 873	63 567	114 852	1 988
<b>MARSHALL</b>													
31-33	Manufacturing .....	5	18	9	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	6	5	4	f	D	D	D	D	D	D	D	D
<b>MEDINA</b>													
31-33	Manufacturing .....	-	22	5	633	26 377	419	785	13 569	54 376	48 948	103 509	5 576
<b>MELROSE</b>													
31-33	Manufacturing .....	-	10	3	1 102	26 111	1 017	2 027	21 645	36 366	258 464	292 690	D
311	Food manufacturing .....	-	4	2	1 035	24 214	962	1 937	20 359	33 067	255 784	286 721	D
3116	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MENDOTA HEIGHTS</b>													
31-33	Manufacturing .....	-	19	6	680	23 711	492	955	14 057	88 292	78 430	169 409	3 787

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNEAPOLIS</b>													
31-33	Manufacturing .....	2	581	199	19 629	799 796	13 260	26 433	453 315	'1 772 705	1 564 335	'3 336 927	111 017
311	Food manufacturing .....	2	62	24	1 666	54 382	1 283	2 538	40 172	175 063	305 898	479 268	6 665
322	Paper manufacturing .....	3	17	10	1 222	46 321	885	1 848	30 710	102 205	153 910	256 397	4 440
3222	Converted paper product manufacturing .....	3	16	10	g	D	D	D	D	D	D	D	4 440
323	Printing and related support activities .....	2	123	41	3 070	133 373	2 021	4 043	75 535	'280 711	147 333	'427 367	23 853
3231	Printing and related support activities .....	2	123	41	3 070	133 373	2 021	4 043	75 535	'280 711	147 333	'427 367	23 853
32311	Printing .....	2	'98	30	'2 430	'101 098	'1 568	'3 096	'55 386	'220 608	'134 306	'355 144	'22 076
323110	Commercial lithographic printing .....	3	46	19	1 578	74 220	1 061	2 077	40 617	152 086	94 378	246 289	18 136
32312	Support activities for printing...	-	'25	11	'640	'32 275	'453	'947	'20 149	'60 103	'13 027	'72 223	'1 777
325	Chemical manufacturing .....	4	22	9	516	21 608	300	581	9 677	60 936	65 721	127 200	2 596
326	Plastics and rubber products manufacturing .....	6	20	9	1 213	41 668	885	1 792	24 481	104 094	88 063	191 791	5 232
3261	Plastics product manufacturing ..	7	14	6	951	32 296	738	1 498	20 464	84 203	73 920	157 644	D
32619	Other plastics product manufacturing .....	7	9	3	732	23 502	602	1 217	16 356	59 318	44 406	103 249	3 587
326199	All other plastics product manufacturing .....	7	9	3	732	23 502	602	1 217	16 356	59 318	44 406	103 249	3 587
331	Primary metal manufacturing .....	-	9	5	855	37 875	654	1 422	24 809	68 586	35 512	104 655	D
332	Fabricated metal product manufacturing .....	-	86	37	3 566	124 349	2 639	5 350	78 800	238 050	200 112	435 800	16 723
3323	Architectural and structural metals manufacturing .....	-	17	8	600	20 024	399	761	11 449	48 636	75 891	120 843	1 697
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	-	31	12	915	35 356	687	1 334	22 562	74 609	33 000	109 584	4 472
3328	Coating, engraving, heat treating, and allied activities .....	-	18	10	1 245	38 578	975	2 044	26 587	65 569	47 676	113 242	8 497
33281	Coating, engraving, heat treating, and allied activities ..	-	18	10	1 245	38 578	975	2 044	26 587	65 569	47 676	113 242	8 497
332813	Electroplating, plating, polishing, anodizing, and coloring .....	-	13	8	1 148	34 540	892	1 864	23 491	58 209	45 652	103 858	D
333	Machinery manufacturing .....	-	40	19	1 911	94 694	1 128	2 250	46 501	203 982	186 813	405 781	10 117
3339	Other general purpose machinery manufacturing .....	-	12	9	1 263	68 963	716	1 419	32 554	157 399	140 519	310 634	8 094
33391	Pump and compressor manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	28	7	2 230	118 232	1 112	2 014	49 438	206 772	140 241	330 768	8 372
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	8	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	8	3	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	3	6	3	536	18 573	380	809	11 679	33 531	24 383	61 904	1 208
337	Furniture and related product manufacturing .....	-	43	11	735	24 460	498	871	13 356	44 544	46 561	91 783	965
339	Miscellaneous manufacturing .....	6	69	14	1 158	45 055	749	1 511	21 218	153 266	45 533	198 533	4 740
3399	Other miscellaneous manufacturing .....	3	47	10	740	26 166	495	1 001	12 393	70 316	27 455	97 542	1 814

See footnotes at end of table.



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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MINNETONKA</b>													
31-33	Manufacturing .....	1	109	38	6 561	301 653	3 261	6 269	96 601	849 826	468 428	1 343 788	40 536
333	Machinery manufacturing .....	-	7	4	1 092	55 083	354	613	4 837	92 628	65 956	161 975	D
3339	Other general purpose machinery manufacturing .....	-	3	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
333999	All other miscellaneous general purpose machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	19	13	3 106	152 389	1 397	3 089	50 497	529 644	265 608	799 787	23 437
3341	Computer and peripheral equipment manufacturing .....	-	5	4	1 311	71 082	248	505	9 576	202 457	115 228	314 240	D
33411	Computer and peripheral equipment manufacturing ....	-	5	4	1 311	71 082	248	505	9 576	202 457	115 228	314 240	D
334119	Other computer peripheral equipment manufacturing ..	-	3	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	9 132
33441	Semiconductor and other electronic component manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	9 132
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	6	4	g	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	8	15	5	681	34 562	291	520	6 302	86 420	37 149	124 963	3 236
3391	Medical equipment and supplies manufacturing .....	8	7	4	601	31 406	234	420	4 738	81 330	33 826	116 421	3 041
33911	Medical equipment and supplies manufacturing .....	8	7	4	601	31 406	234	420	4 738	81 330	33 826	116 421	3 041
<b>MONTEVIDEO</b>													
31-33	Manufacturing .....	3	15	5	656	21 583	492	1 094	15 588	50 150	48 002	97 900	1 728
<b>MONTGOMERY</b>													
31-33	Manufacturing .....	-	8	2	f	D	D	D	D	D	D	D	D
<b>MONTICELLO</b>													
31-33	Manufacturing .....	-	24	12	923	34 149	603	1 168	16 332	92 044	71 166	160 363	9 380
<b>MOORHEAD</b>													
31-33	Manufacturing .....	-	23	6	f	D	D	D	D	D	D	D	5 671
<b>MORA</b>													
31-33	Manufacturing .....	1	10	4	523	14 898	408	719	9 748	31 732	30 658	62 544	D
<b>MOUNDS VIEW</b>													
31-33	Manufacturing .....	-	16	7	574	25 661	377	706	11 976	66 775	37 637	104 718	1 118
<b>NEW BRIGHTON</b>													
31-33	Manufacturing .....	3	48	26	2 450	106 221	1 467	2 920	49 780	251 948	183 573	435 289	10 921
333	Machinery manufacturing .....	5	3	3	527	23 973	299	593	9 046	82 074	61 404	142 617	2 859
<b>NEW HOPE</b>													
31-33	Manufacturing .....	1	78	44	3 507	142 073	2 434	4 846	87 200	378 922	259 599	641 919	15 990
311	Food manufacturing .....	-	7	5	543	16 677	393	794	11 521	32 511	60 523	92 708	511
331	Primary metal manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	3	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ....	-	3	3	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries.....	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	17	9	530	21 672	403	776	15 040	43 511	22 571	65 665	1 876

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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>NEW ULM</b>													
31-33	Manufacturing .....	-	23	12	2 506	80 494	2 128	4 444	60 623	463 365	537 514	1 004 339	30 185
311	Food manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>NORTHFIELD</b>													
31-33	Manufacturing .....	-	24	5	1 044	51 055	829	1 613	38 443	349 688	179 714	505 594	D
311	Food manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	-	2	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>NORTH MANKATO</b>													
31-33	Manufacturing .....	-	26	15	h	D	D	D	D	D	D	D	6 801
323	Printing and related support activities .....	-	8	8	h	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	8	8	h	D	D	D	D	D	D	D	D
32311	Printing .....	-	8	8	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	7	7	h	D	D	D	D	D	D	D	D
<b>NORTH ST. PAUL</b>													
31-33	Manufacturing .....	-	12	3	609	26 843	301	612	8 618	72 696	54 573	126 558	1 351
<b>OAKDALE</b>													
31-33	Manufacturing .....	1	33	13	820	36 308	444	924	16 833	99 966	136 109	237 568	2 527
<b>OWATONNA</b>													
31-33	Manufacturing .....	1	51	21	5 673	225 452	3 990	8 178	122 054	532 892	576 407	1 111 605	29 204
327	Nonmetallic mineral product manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	15	4	g	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	4	2	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>PARK RAPIDS</b>													
31-33	Manufacturing .....	-	26	4	f	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	4	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
<b>PERHAM</b>													
31-33	Manufacturing .....	-	16	5	f	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
<b>PLYMOUTH</b>													
31-33	Manufacturing .....	1	'193	97	'12 249	'575 314	6 774	13 687	249 575	'1 360 919	'1 292 435	'2 669 680	58 339
323	Printing and related support activities .....	3	22	11	694	26 799	506	917	16 385	53 265	39 750	93 407	2 668
3231	Printing and related support activities .....	3	22	11	694	26 799	506	917	16 385	53 265	39 750	93 407	2 668
32311	Printing .....	3	19	10	654	25 503	494	891	15 953	50 302	38 703	89 723	D
325	Chemical manufacturing .....	-	6	2	613	32 253	341	733	14 042	66 671	69 569	138 363	D
332	Fabricated metal product manufacturing .....	-	37	12	1 229	58 623	784	1 622	28 669	190 587	322 245	515 582	4 967
333	Machinery manufacturing .....	-	33	18	2 403	105 671	1 070	2 280	40 057	213 848	293 321	505 009	5 893
3333	Commercial and service industry machinery manufacturing .....	-	5	3	585	30 675	338	774	13 361	37 869	103 039	144 949	D
33331	Commercial and service industry machinery manufacturing .....	-	5	3	585	30 675	338	774	13 361	37 869	103 039	144 949	D
333319	Other commercial and service industry machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	11	5	901	30 261	274	593	9 439	91 337	92 313	179 253	1 771
33399	All other general purpose machinery manufacturing ....	1	8	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	28	20	3 680	193 043	1 948	3 818	78 734	376 513	243 332	634 177	14 811
3341	Computer and peripheral equipment manufacturing .....	-	5	4	1 029	73 827	146	277	8 155	110 018	87 456	204 536	D
33411	Computer and peripheral equipment manufacturing ....	-	5	4	1 029	73 827	146	277	8 155	110 018	87 456	204 536	D
334119	Other computer peripheral equipment manufacturing ..	-	3	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	13	9	1 247	54 572	830	1 640	29 583	119 303	77 575	196 862	2 875
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	13	9	1 247	54 572	830	1 640	29 583	119 303	77 575	196 862	2 875
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	2	7	5	1 022	42 444	738	1 492	25 760	95 291	62 881	158 653	2 239
335	Electrical equipment, appliance, and component manufacturing .....	-	8	7	797	33 107	508	981	14 513	113 056	140 926	248 254	5 173
339	Miscellaneous manufacturing .....	2	31	14	1 439	72 061	697	1 438	25 681	217 664	89 277	304 615	9 821
3391	Medical equipment and supplies manufacturing .....	2	19	11	1 237	62 778	574	1 196	21 320	192 898	74 688	265 741	8 312
33911	Medical equipment and supplies manufacturing .....	2	19	11	1 237	62 778	574	1 196	21 320	192 898	74 688	265 741	8 312
339112	Surgical and medical instrument manufacturing ..	3	9	7	638	35 216	204	399	6 553	129 906	36 103	164 700	3 525

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>PRINCETON</b>													
31-33	Manufacturing .....	-	18	8	972	31 157	772	1 531	22 542	54 507	58 622	113 589	D
337	Furniture and related product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>RAMSEY</b>													
31-33	Manufacturing .....	3	67	13	1 373	55 283	966	1 861	32 095	122 514	74 387	196 034	8 814
339	Miscellaneous manufacturing .....	5	8	3	521	22 460	397	764	13 483	61 070	34 641	95 909	4 440
<b>RED WING</b>													
31-33	Manufacturing .....	-	37	17	2 750	103 635	1 985	3 917	59 374	247 791	247 001	495 099	5 710
316	Leather and allied product manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>REDWOOD FALLS</b>													
31-33	Manufacturing .....	-	8	4	709	21 788	516	940	12 703	32 599	32 354	65 198	1 806
<b>ROCHESTER</b>													
31-33	Manufacturing .....	-	70	34	11 227	573 216	4 038	8 090	127 192	1 282 105	2 158 694	3 359 209	D
311	Food manufacturing .....	-	12	11	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	6	4	i	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	-	1	1	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	-	1	1	i	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	2	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
33512	Lighting fixture manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping ..	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ROGERS</b>													
31-33	Manufacturing .....	-	31	15	1 150	41 764	875	1 862	28 620	70 731	129 477	202 377	6 539

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ROSEAU</b>													
31-33	Manufacturing .....	-	7	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing ..	-	3	2	g	D	D	D	D	D	D	D	D
<b>ROSEMOUNT</b>													
31-33	Manufacturing .....	-	19	7	768	31 843	406	868	14 703	64 358	164 893	227 605	4 189
<b>ROSEVILLE</b>													
31-33	Manufacturing .....	1	70	27	3 065	116 033	1 641	3 036	53 085	216 555	192 991	412 996	12 087
311	Food manufacturing .....	-	6	3	1 075	33 094	316	495	9 408	58 168	57 520	115 574	2 466
3118	Bakeries and tortilla manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	1	1	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	3	18	5	593	26 098	406	707	15 742	49 411	33 015	82 361	1 615
3231	Printing and related support activities .....	3	18	5	593	26 098	406	707	15 742	49 411	33 015	82 361	1 615
32311	Printing .....	3	16	4	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	5	4	512	23 591	308	621	8 669	26 470	22 885	52 495	5 629
<b>ST. CLOUD</b>													
31-33	Manufacturing .....	-	79	36	7 851	267 184	5 774	11 305	176 660	696 888	644 864	1 344 068	52 884
311	Food manufacturing .....	-	8	5	871	27 033	421	861	12 229	61 538	31 606	93 153	D
3118	Bakeries and tortilla manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	20	7	2 406	90 329	1 630	3 276	52 668	257 252	114 490	372 252	32 859
3231	Printing and related support activities .....	-	20	7	2 406	90 329	1 630	3 276	52 668	257 252	114 490	372 252	32 859
32311	Printing .....	-	18	7	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	8	5	g	D	D	D	D	D	D	D	D
323118	Blankbook, looseleaf binders, and devices manufacturing .	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	-	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

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<b>ST. LOUIS PARK</b>													
31-33	Manufacturing .....	-	88	33	3 396	149 631	2 257	4 694	78 602	'474 913	'316 909	'797 844	21 904
311	Food manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	14	7	911	38 474	680	1 501	24 333	81 771	52 628	134 164	4 461
3231	Printing and related support activities .....	-	14	7	911	38 474	680	1 501	24 333	81 771	52 628	134 164	4 461
32311	Printing .....	-	13	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	8	5	772	32 105	588	1 320	20 205	71 029	46 970	117 917	D
332	Fabricated metal product manufacturing .....	2	15	7	513	21 016	381	797	13 045	43 503	45 425	86 965	2 399
<b>ST. PAUL</b>													
31-33	Manufacturing .....	-	'310	'106	'13 588	'597 068	'9 081	'17 925	'387 872	'1 701 293	'2 458 426	'4 144 761	'59 673
311	Food manufacturing .....	1	29	11	636	21 072	405	769	12 357	49 985	36 250	86 165	1 786
322	Paper manufacturing .....	-	12	12	2 659	95 131	1 525	3 200	62 283	265 454	200 408	477 974	9 024
3222	Converted paper product manufacturing .....	-	10	10	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	7	7	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing .....	-	4	4	641	31 253	521	1 108	22 731	57 683	58 187	114 547	3 475
32222	Paper bag and coated and treated paper manufacturing ..	-	2	2	g	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	69	16	2 568	106 556	1 477	2 854	54 902	185 887	158 384	341 736	8 233
3231	Printing and related support activities .....	-	69	16	2 568	106 556	1 477	2 854	54 902	185 887	158 384	341 736	8 233
32311	Printing .....	-	62	14	2 416	102 373	1 371	2 628	52 437	174 021	154 860	326 387	7 657
323110	Commercial lithographic printing .....	-	27	9	1 806	78 273	960	1 823	38 760	118 845	125 293	242 040	5 111
331	Primary metal manufacturing .....	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	47	20	1 366	58 433	999	2 004	36 984	143 493	123 025	263 933	8 297
333	Machinery manufacturing .....	-	16	6	653	28 568	497	921	19 963	53 980	34 883	89 271	2 143
334	Computer and electronic product manufacturing .....	2	12	4	654	30 874	289	546	8 423	73 792	30 622	102 543	1 328
336	Transportation equipment manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	35	13	855	30 522	482	1 019	12 961	57 535	37 824	93 483	5 680
<b>SARTELL</b>													
31-33	Manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SAUK RAPIDS</b>													
31-33	Manufacturing .....	-	24	14	1 389	47 022	999	2 057	28 998	136 041	104 769	237 526	D
339	Miscellaneous manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>SAVAGE</b>													
31-33	Manufacturing .....	-	36	11	1 176	45 819	689	1 302	24 877	86 692	99 688	182 761	7 819

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SHAKOPEE</b>													
31-33	Manufacturing .....	1	35	16	2 803	106 096	1 932	4 027	71 388	339 591	275 471	604 572	35 144
332	Fabricated metal product manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
3321	Forging and stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
33211	Forging and stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
332116	Metal stamping .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	3	3	515	12 819	297	658	9 256	15 477	16 368	32 215	D
<b>SHOREVIEW</b>													
31-33	Manufacturing .....	-	32	10	1 582	68 786	624	1 148	21 879	263 229	67 557	328 892	5 550
334	Computer and electronic product manufacturing .....	-	4	3	808	39 429	273	538	10 754	195 449	30 111	226 340	3 473
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	4	3	808	39 429	273	538	10 754	195 449	30 111	226 340	3 473
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	4	3	808	39 429	273	538	10 754	195 449	30 111	226 340	3 473
<b>SLEEPY EYE</b>													
31-33	Manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	4	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	4	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	4	2	f	D	D	D	D	D	D	D	D
<b>SOUTH ST. PAUL</b>													
31-33	Manufacturing .....	-	33	11	1 618	62 226	1 196	2 447	38 910	152 636	308 936	459 331	12 090
<b>STILLWATER</b>													
31-33	Manufacturing .....	-	24	5	772	32 274	502	856	17 694	95 891	56 110	155 386	5 235
<b>THIEF RIVER FALLS</b>													
31-33	Manufacturing .....	-	22	7	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>VADNAIS HEIGHTS</b>													
31-33	Manufacturing .....	2	37	13	1 250	51 633	745	1 410	25 460	126 734	75 478	202 401	4 982
<b>WACONIA</b>													
31-33	Manufacturing .....	-	20	5	924	32 443	690	1 388	19 809	89 253	60 365	150 188	3 534
337	Furniture and related product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>WASECA</b>													
31-33	Manufacturing .....	6	17	10	g	D	D	D	D	D	D	D	33 171
323	Printing and related support activities .....	9	6	4	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	9	6	4	g	D	D	D	D	D	D	D	D
32311	Printing .....	9	5	3	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	9	5	3	g	D	D	D	D	D	D	D	D
<b>WEST ST. PAUL</b>													
31-33	Manufacturing .....	-	15	10	643	25 606	427	884	14 258	56 449	42 586	98 672	4 027
<b>WHITE BEAR</b>													
31-33	Manufacturing .....	2	25	13	1 072	50 814	642	1 258	22 109	110 840	101 165	211 055	3 027

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<b>WHITE BEAR LAKE</b>													
31-33	Manufacturing .....	1	42	16	1 561	60 588	813	1 604	25 585	159 141	202 221	361 343	5 642
323	Printing and related support activities .....	1	9	3	529	14 961	198	341	5 485	44 268	31 952	76 170	1 523
3231	Printing and related support activities .....	1	9	3	529	14 961	198	341	5 485	44 268	31 952	76 170	1 523
<b>WILLMAR</b>													
31-33	Manufacturing .....	1	34	12	2 464	66 050	1 879	3 706	36 411	187 569	212 927	398 805	2 465
311	Food manufacturing .....	-	7	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>WINDOM</b>													
31-33	Manufacturing .....	1	8	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>WINONA</b>													
31-33	Manufacturing .....	1	75	31	3 587	119 848	2 502	4 944	68 115	333 137	318 016	653 647	20 667
334	Computer and electronic product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>WOODBURY</b>													
31-33	Manufacturing .....	1	28	7	1 061	47 204	671	1 352	23 431	108 672	170 615	283 033	5 921
<b>WORTHINGTON</b>													
31-33	Manufacturing .....	-	16	7	g	D	D	D	D	D	D	D	6 055
311	Food manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	2	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>WYOMING</b>													
31-33	Manufacturing .....	2	24	9	514	18 372	386	825	12 089	33 858	44 066	80 033	2 615
<b>BALANCE OF BELTRAMI COUNTY</b>													
31-33	Manufacturing .....	-	31	6	974	33 044	818	1 547	25 953	78 398	116 099	193 767	D
321	Wood product manufacturing .....	-	14	5	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BENTON COUNTY</b>													
31-33	Manufacturing .....	5	29	10	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BLUE EARTH COUNTY</b>													
31-33	Manufacturing .....	-	32	10	g	D	D	D	D	D	D	D	D
<b>BALANCE OF CARVER COUNTY</b>													
31-33	Manufacturing .....	-	27	5	609	20 167	500	1 010	13 859	55 524	158 623	212 160	2 741

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
31-33	<b>BALANCE OF CHISAGO COUNTY</b> Manufacturing .....	-	54	11	915	27 357	705	1 390	19 005	66 004	71 208	137 862	5 417
31-33	<b>BALANCE OF CLEARWATER COUNTY</b> Manufacturing .....	1	17	4	519	17 089	283	513	6 607	43 977	81 746	126 756	2 043
31-33	<b>BALANCE OF CROW WING COUNTY</b> Manufacturing .....	-	65	18	1 574	54 444	1 228	2 338	36 577	153 175	97 693	252 422	D
332	Fabricated metal product manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	2 837
31-33	<b>BALANCE OF DODGE COUNTY</b> Manufacturing .....	-	18	5	941	38 961	765	1 729	28 311	36 853	327 771	376 970	D
336	Transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF DOUGLAS COUNTY</b> Manufacturing .....	3	51	6	603	21 483	458	918	14 774	43 815	31 718	77 966	3 110
31-33	<b>BALANCE OF FARIBAUT COUNTY</b> Manufacturing .....	-	23	9	718	20 492	561	1 173	14 137	79 490	123 540	206 493	D
31-33	<b>BALANCE OF FILLMORE COUNTY</b> Manufacturing .....	2	30	7	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF FREEBORN COUNTY</b> Manufacturing .....	6	16	5	776	22 666	635	1 272	15 820	21 822	6 836	27 544	806
311	Food manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	9	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	2	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	1	1	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF GOODHUE COUNTY</b> Manufacturing .....	1	26	6	649	23 342	467	863	14 163	59 115	170 943	230 756	1 793
31-33	<b>BALANCE OF HENNEPIN COUNTY</b> Manufacturing .....	2	87	20	1 392	55 089	908	1 679	26 518	114 750	75 487	189 878	6 705
31-33	<b>BALANCE OF ITASCA COUNTY</b> Manufacturing .....	1	36	8	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF LE SUEUR COUNTY</b> Manufacturing .....	3	25	7	747	21 969	589	900	11 851	58 549	43 402	101 777	D
31-33	<b>BALANCE OF LYON COUNTY</b> Manufacturing .....	-	15	3	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF MCLEOD COUNTY</b> Manufacturing .....	-	38	12	2 203	78 845	1 553	2 950	45 921	165 876	129 474	295 197	D
311	Food manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
31-33	<b>BALANCE OF MEEKER COUNTY</b> Manufacturing .....	3	40	12	717	22 948	493	929	12 592	53 781	38 706	92 568	3 231

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF MILLE LACS COUNTY</b>													
31-33	Manufacturing .....	—	34	7	918	24 945	754	1 596	18 175	51 508	57 300	106 552	D
<b>BALANCE OF MORRISON COUNTY</b>													
31-33	Manufacturing .....	2	33	4	622	15 817	548	1 076	12 807	33 498	54 579	86 735	3 620
<b>BALANCE OF OTTER TAIL COUNTY</b>													
31-33	Manufacturing .....	—	35	8	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	—	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	—	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF POPE COUNTY</b>													
31-33	Manufacturing .....	—	13	5	538	17 087	380	740	9 842	16 056	55 629	73 675	2 675
333	Machinery manufacturing .....	—	5	5	507	16 374	354	710	9 371	14 528	53 786	70 304	D
<b>BALANCE OF RENVILLE COUNTY</b>													
31-33	Manufacturing .....	—	29	9	954	33 489	715	1 589	23 546	168 221	181 066	340 308	D
<b>BALANCE OF ROSEAU COUNTY</b>													
31-33	Manufacturing .....	—	14	3	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
32191	Millwork .....	—	1	1	h	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
<b>BALANCE OF ST. LOUIS COUNTY</b>													
31-33	Manufacturing .....	2	65	10	742	24 952	554	1 091	17 874	66 489	76 702	143 162	D
<b>BALANCE OF SIBLEY COUNTY</b>													
31-33	Manufacturing .....	—	25	7	883	25 789	780	1 551	21 666	133 198	188 456	321 020	3 434
311	Food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
<b>BALANCE OF STEARNS COUNTY</b>													
31-33	Manufacturing .....	1	124	26	'2 229	'73 034	'1 669	'3 397	'48 550	233 833	246 549	476 366	D
<b>BALANCE OF WATONWAN COUNTY</b>													
31-33	Manufacturing .....	—	9	3	609	14 255	494	1 049	10 884	45 996	57 795	104 431	2 693
<b>BALANCE OF WRIGHT COUNTY</b>													
31-33	Manufacturing .....	2	64	15	1 454	45 741	1 152	2 120	30 474	112 274	85 056	195 529	5 482

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Industries 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.

<sup>4</sup>Number 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
<b>MINNESOTA</b>	
Companies <sup>1</sup> .....	N
All establishments <sup>2</sup> .....	'8 139
Establishments with 1 to 19 employees .....	'5 506
Establishments with 20 to 99 employees .....	'1 847
Establishments with 100 employees or more .....	'786
All employees <sup>3</sup> .....	'351 884
Total compensation .....	\$1,000.. '17 262 187
Annual payroll .....	\$1,000.. '14 077 260
Total fringe benefits .....	\$1,000.. '3 184 927
Production workers, average for year .....	number.. '233 396
Production workers on March 12 .....	number.. '232 448
Production workers on May 12 .....	number.. '233 521
Production workers on August 12 .....	number.. '236 071
Production workers on November 12 .....	number.. '230 859
Production worker hours .....	1,000.. '459 617
Production worker wages .....	\$1,000.. '7 598 620
Total cost of materials .....	\$1,000.. '40 960 059
Materials, parts, containers, packaging, etc., used .....	\$1,000.. '36 111 738
Resales .....	\$1,000.. '2 490 869
Purchased fuels .....	\$1,000.. '566 397
Purchased electricity .....	\$1,000.. '622 859
Contract work .....	\$1,000.. '1 168 196
Quantity of electricity purchased for heat and power .....	1,000 kWh.. '14 006 126
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Total value of shipments .....	\$1,000.. '80 623 873
Value of resales .....	\$1,000.. '3 376 981
Value added .....	\$1,000.. '39 610 449
Total inventories, beginning of year .....	\$1,000.. '8 082 982
Finished goods inventories .....	\$1,000.. '3 270 922
Work-in-process inventories .....	\$1,000.. '1 566 213
Materials and supplies inventories .....	\$1,000.. '3 245 847
Total inventories, end of year .....	\$1,000.. '8 029 940
Finished goods inventories .....	\$1,000.. '3 166 823
Work-in-process inventories .....	\$1,000.. '1 606 364
Materials and supplies inventories .....	\$1,000.. '3 256 753
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '32 208 411
Total capital expenditures (new and used) .....	\$1,000.. '2 815 001
Buildings and other structures (new and used) .....	\$1,000.. '431 347
Machinery and equipment (new and used) .....	\$1,000.. '2 383 654
Automobiles, trucks, etc., for highway use .....	\$1,000.. '75 522
Computers and peripheral data processing equipment .....	\$1,000.. '172 089
All other expenditures for machinery and equipment .....	\$1,000.. '2 136 043
Total retirements .....	\$1,000.. '1 650 772
Gross value of depreciable assets at end of year .....	\$1,000.. '33 372 640
Depreciation charges during year .....	\$1,000.. '2 324 121
Total rental payments .....	\$1,000.. '828 338
Buildings and other structures .....	\$1,000.. '503 175
Machinery and equipment .....	\$1,000.. '325 163

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

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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

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### **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).

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## **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.

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## **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

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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.

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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.



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## **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.

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## **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

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### **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;

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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:

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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).

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### **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.

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### **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.

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## **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.



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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **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.



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### **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

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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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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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.



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### **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.

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### **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.

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## **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.

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### **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.

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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.

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### **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.

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### **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.



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### **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.

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### **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.

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## **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.

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### **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.



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### **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.

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## **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.

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### **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.

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### **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.

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### **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).

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### **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.



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### **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.

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### **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.

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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.

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### **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.

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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.

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### **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.

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### **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).



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### **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.

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### **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.

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### **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.

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### **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

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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.

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### **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.

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### **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.



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### **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).

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### **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.

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### **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.

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### **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:

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.

### **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.

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### **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.

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### **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.

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### **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.



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### **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.

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### **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

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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.

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### **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.

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### **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.

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### **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.

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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.



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### **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.

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### **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).

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### **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

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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

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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.

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### **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).

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### **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.

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### **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

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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).

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### **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.

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### **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

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### 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

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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

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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/](http://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](http://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.



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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

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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

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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.

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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](http://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

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### MINNESOTA

**Albertville** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Wright County.

**Annandale** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Wright County.

**Appleton** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Swift County.

**Becker** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Sherburne County.

**Blaine** is in Anoka and Ramsey Counties.

**Centerville** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Anoka County.

**Chanhausen** is in Carver and Hennepin Counties.

**Chisago City** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Chisago County.

**Cokato** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Wright County.

**Dayton** is in Hennepin and Wright Counties.

**Granite Falls** is in Chippewa and Yellow Medicine Counties.

**Grant** incorporated in January 1997. This change deletes territory from the Balance of Washington County.

**Greenfield** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Hennepin County.

**Hastings** is in Dakota and Washington Counties.

**La Crescent** is in Houston and Winona Counties; it annexed into Winona County in September 1998. This change deletes territory from the Balance of Winona County.

**Lake City** is in Goodhue and Wabasha Counties.

**Lauderdale** is no longer tabulated separately due to a population decrease. This change adds territory to the Balance of Ramsey County.

**Le Sueur** is in Le Sueur and Sibley Counties.

**Mankato** is in Blue Earth, Le Sueur, and Nicollet Counties.

**Milaca** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Mille Lacs County.

**New Prague** is in Le Sueur and Scott Counties.

**Northfield** is in Dakota and Rice Counties.

**North Mankato** is in Blue Earth and Nicollet Counties.

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**Norwood Young America** was formed from the merger of Norwood and Young America in January 1997; neither place was separately tabulated in 1997. This change deletes territory from the Balance of Carver County.

**Osseo** is no longer tabulated separately due to a population decrease. This change adds territory to the Balance of Hennepin County.

**Perham** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Otter Tail County.

**Princeton** is in Mille Lacs and Sherburne Counties.

**Rockford** is in Hennepin and Wright Counties.

**Rogers** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Hennepin County.

**St. Anthony** is in Hennepin and Ramsey Counties.

**St. Augusta** incorporated in November 2000. This change deletes territory from the Balance of Stearns County.

**St. Cloud** is in Benton, Sherburne, and Stearns Counties.

**Sartell** is in Benton and Stearns Counties.

**Spring Lake Park** is in Anoka and Ramsey Counties.

**Spring Valley** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Fillmore County.

**Staples** is in Todd and Wadena Counties.

**Wadena** is in Otter Tail and Wadena Counties.

**White Bear Lake** is in Ramsey and Washington Counties.

**Zimmerman** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Sherburne County.

**Zumbrota** is now tabulated separately due to a population increase. This change deletes territory from the Balance of Goodhue County.

**Balance of Anoka County** no longer includes Centerville, which is tabulated separately due to a population increase.

**Balance of Carver County** lost territory due to the formation of Norwood Young America from the merger of Norwood and Young America in January 1997.

**Balance of Chisago County** no longer includes Chisago City, which is tabulated separately due to a population increase.

**Balance of Fillmore County** no longer includes Spring Valley, which is tabulated separately due to a population increase.

**Balance of Goodhue County** no longer includes Zumbrota, which is tabulated separately due to a population increase.

**Balance of Hennepin County** no longer includes Greenfield and Rogers, which are tabulated separately due to a population increase and includes Osseo, which is no longer tabulated separately due to a population decrease.

**Balance of Mille Lacs County** no longer includes Milaca, which is tabulated separately due to a population increase.

**Balance of Otter Tail County** no longer includes Perham, which is tabulated separately due to a population increase.

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**Balance of Ramsey County** includes Lauderdale, which is no longer tabulated separately due to a population decrease.

**Balance of Sherburne County** no longer includes Becker and Zimmerman, which are tabulated separately due to a population increase.

**Balance of Stearns County** lost territory due to the incorporation of St. Augusta.

**Balance of Swift County** no longer includes Appleton, which is tabulated separately due to a population increase.

**Balance of Washington County** lost territory due to the incorporation of Grant.

**Balance of Winona County** lost territory due to the annexation of La Crescent into the county.

**Balance of Wright County** no longer includes Albertville, Annandale, and Cokato, which are tabulated separately due to a population increase.

# Appendix E.

## Metropolitan and Micropolitan Statistical Areas

### **FARGO-WAHPETON, ND-MN COMBINED STATISTICAL AREA**

#### **Fargo, ND-MN Metropolitan Statistical Area**

Clay County, MN

Cass County, ND

#### **Wahpeton, ND-MN Micropolitan Statistical Area**

Wilkin County, MN

Richland County, ND

### **MINNEAPOLIS-ST. PAUL-ST. CLOUD, MN-WI COMBINED STATISTICAL AREA**

#### **Faribault-Northfield, MN Micropolitan Statistical Area**

Rice County, MN

#### **Hutchinson, MN Micropolitan Statistical Area**

McLeod County, MN

#### **Minneapolis-St. Paul-Bloomington, MN-WI Metropolitan Statistical Area**

Anoka County, MN

Carver County, MN

Chisago County, MN

Dakota County, MN

Hennepin County, MN

Isanti County, MN

Ramsey County, MN

Scott County, MN

Sherburne County, MN

Washington County, MN

Wright County, MN

Pierce County, WI

St. Croix County, WI

#### **Red Wing, MN Micropolitan Statistical Area**

Goodhue County, MN

#### **St. Cloud, MN Metropolitan Statistical Area**

Benton County, MN

Stearns County, MN

2002 Economic Census

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**ALBERT LEA, MN MICROPOLITAN STATISTICAL AREA**

Freeborn County, MN

**ALEXANDRIA, MN MICROPOLITAN STATISTICAL AREA**

Douglas County, MN

**AUSTIN, MN MICROPOLITAN STATISTICAL AREA**

Mower County, MN

**BEMIDJI, MN MICROPOLITAN STATISTICAL AREA**

Beltrami County, MN

**BRAINERD, MN MICROPOLITAN STATISTICAL AREA**

Cass County, MN

Crow Wing County, MN

**DULUTH, MN-WI METROPOLITAN STATISTICAL AREA**

Carlton County, MN

St. Louis County, MN

Douglas County, WI

**FAIRMONT, MN MICROPOLITAN STATISTICAL AREA**

Martin County, MN

**FERGUS FALLS, MN MICROPOLITAN STATISTICAL AREA**

Otter Tail County, MN

**GRAND FORKS, ND-MN METROPOLITAN STATISTICAL AREA**

Polk County, MN

Grand Forks County, ND

**LA CROSSE, WI-MN METROPOLITAN STATISTICAL AREA**

Houston County, MN

La Crosse County, WI

**MANKATO-NORTH MANKATO, MN MICROPOLITAN STATISTICAL AREA**

Blue Earth County, MN

Nicollet County, MN

**MARSHALL, MN MICROPOLITAN STATISTICAL AREA**

Lyon County, MN

**NEW ULM, MN MICROPOLITAN STATISTICAL AREA**

Brown County, MN

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**OWATONNA, MN MICROPOLITAN STATISTICAL AREA**

Steele County, MN

**ROCHESTER, MN METROPOLITAN STATISTICAL AREA**

Dodge County, MN

Olmsted County, MN

Wabasha County, MN

**WILLMAR, MN MICROPOLITAN STATISTICAL AREA**

Kandiyohi County, MN

**WINONA, MN MICROPOLITAN STATISTICAL AREA**

Winona County, MN

**WORTHINGTON, MN MICROPOLITAN STATISTICAL AREA**

Nobles County, MN

