

# Arkansas: 2002

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## 2002 Economic Census

*Manufacturing*

Geographic Area Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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## 2002 Economic Census

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#### Geographic Area Series



**U.S. Department of Commerce**

**Carlos M. Gutierrez,**

Secretary

**David A. Sampson,**

Deputy Secretary

**Economics and Statistics Administration**

**Kathleen B. Cooper,**

Under Secretary for  
Economic Affairs

**U.S. CENSUS BUREAU**

**Charles Louis Kincannon,**

Director

---



**Economics  
and Statistics  
Administration**

**Kathleen B. Cooper,**  
Under Secretary  
for Economic Affairs



**U.S. CENSUS BUREAU**

**Charles Louis Kincannon,**  
Director

**Hermann Habermann,**  
Deputy Director and  
Chief Operating Officer

**Thomas L. Mesenbourg,**  
Associate Director  
for Economic Programs

**Thomas L. Mesenbourg,**  
Acting Assistant Director  
for Economic Programs

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

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# Introduction to the Economic Census

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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>ARKANSAS</b>													
31-33	Manufacturing .....	-	'3 185	'1 094	'210 394	'6 309 251	'169 867	'334 390	'4 532 650	'21 965 415	'24 899 853	'46 721 413	'1 209 902
311	Food manufacturing .....	1	270	134	53 844	1 219 946	47 081	90 963	977 440	5 737 439	6 235 163	11 764 783	193 954
3111	Animal food manufacturing .....	-	36	14	876	26 965	638	1 137	17 022	171 205	789 993	959 496	8 843
31111	Animal food manufacturing ....	-	36	14	876	26 965	638	1 137	17 022	171 205	789 993	959 496	8 843
311119	Other animal food manufacturing .....	-	35	13	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	-	27	14	2 237	69 344	1 801	3 631	49 878	191 238	1 059 711	1 194 604	21 273
31121	Flour milling and malt manufacturing .....	-	20	9	1 614	50 341	1 351	2 620	37 476	106 141	559 669	665 402	15 971
311212	Rice milling .....	-	15	9	1 584	49 149	1 328	2 569	36 633	104 336	552 130	656 059	15 813
31122	Starch and vegetable fats and oils manufacturing .....	-	7	5	623	19 003	450	1 011	12 402	85 097	500 042	529 202	5 302
311222	Soybean processing .....	-	2	2	e	D	D	D	D	D	D	D	D
311225	Fats and oils refining and blending .....	-	3	1	c	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	18	13	4 189	107 463	3 665	7 365	84 629	874 361	560 301	1 436 568	24 448
31141	Frozen food manufacturing ....	-	7	5	h	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	2	3	2	c	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	4	3	2 635	64 148	2 339	4 583	50 671	444 764	319 409	765 134	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	11	8	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ...	-	10	7	f	D	D	D	D	D	D	D	1 294
311422	Specialty canning .....	-	1	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	6	12	6	880	30 362	651	1 311	17 291	130 546	264 120	394 749	D
31151	Dairy product (except frozen) manufacturing .....	5	9	5	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	5	4	3	e	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	5	4	2	c	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	9	3	1	c	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	9	3	1	c	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	1	89	57	40 260	845 544	35 852	68 845	704 138	3 929 957	3 008 706	6 784 285	108 942
31161	Animal slaughtering and processing .....	1	89	57	40 260	845 544	35 852	68 845	704 138	3 929 957	3 008 706	6 784 285	108 942
311611	Animal (except poultry) slaughtering .....	-	23	3	1 157	27 751	922	2 039	23 402	83 339	297 060	382 050	D
311612	Meat processed from carcasses .....	-	11	4	2 478	68 436	2 028	4 252	48 221	293	10 544	21 231	383
311613	Rendering and meat byproduct processing .....	-	5	3	389	12 512	296	644	8 916	45 021	96 043	141 622	D
311615	Poultry processing .....	1	50	47	36 236	736 845	32 606	61 910	623 599	3 801 304	2 605 059	6 239 382	93 121
3117	Seafood product preparation and packaging .....	2	4	3	392	6 199	330	631	4 343	12 351	26 126	38 449	825
31171	Seafood product preparation and packaging .....	2	4	3	392	6 199	330	631	4 343	12 351	26 126	38 449	825
311712	Fresh and frozen seafood processing .....	2	4	3	392	6 199	330	631	4 343	12 351	26 126	38 449	825
3118	Bakeries and tortilla manufacturing .....	2	54	14	2 333	62 862	1 772	3 594	44 426	191 579	153 734	345 804	8 090
31181	Bread and bakery product manufacturing .....	1	47	10	1 727	47 740	1 223	2 375	31 627	158 627	132 447	291 535	7 461
311811	Retail bakeries .....	8	29	2	e	D	D	D	D	D	D	D	2 350
311812	Commercial bakeries .....	-	16	6	1 182	37 883	921	1 848	25 686	127 035	96 285	223 848	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	6	2	2	c	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing .....	3	4	3	c	D	D	D	D	D	D	D	D
311822	Flour mixes and dough manufacturing from purchased flour .....	9	2	1	c	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	24	12	2 639	70 015	2 341	4 391	54 819	233 388	370 908	606 517	13 096
31191	Snack food manufacturing ....	1	6	5	1 157	40 120	982	1 986	30 372	171 212	347 688	520 689	12 100
311911	Roasted nuts and peanut butter manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	7	3	3	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	2	16	6	g	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing .....	2	14	4	1 390	28 300	1 320	2 332	23 760	52 356	16 275	68 607	794



**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>ARKANSAS—Con.</b>													
312	Beverage and tobacco product manufacturing .....	—	22	8	757	27 336	414	867	13 694	154 845	211 062	373 400	10 686
3121	Beverage manufacturing .....	—	22	8	757	27 336	414	867	13 694	154 845	211 062	373 400	10 686
31211	Soft drink and ice manufacturing .....	—	16	7	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	—	4	4	325	11 565	143	294	5 676	33 798	130 118	159 840	D
312112	Bottled water manufacturing .....	5	3	2	c	D	D	D	D	D	D	D	D
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 .....	—	13	1	182	6 551	134	276	4 428	15 823	19 226	35 655	D
3132	Fabric mills .....	—	6	1	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
314	Textile product mills .....	—	56	9	1 447	39 768	1 193	2 188	29 883	76 700	92 411	196 322	D
3141	Textile furnishings mills .....	—	22	1	288	6 119	251	424	4 364	7 980	19 575	25 532	D
31411	Carpet and rug mills .....	—	1	1	c	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	—	1	1	c	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	—	34	8	1 159	33 649	942	1 764	25 519	68 720	72 836	170 790	D
31491	Textile bag and canvas mills .....	1	17	2	186	4 702	146	281	2 958	8 818	8 255	16 840	D
314911	Textile bag mills .....	—	4	2	c	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	—	17	6	973	28 947	796	1 483	22 561	59 902	64 581	153 950	D
314992	Tire cord and tire fabric mills .....	—	2	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	4	14	4	c	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	4	43	21	2 597	50 504	2 354	4 387	41 967	185 488	144 636	333 933	D
3151	Apparel knitting mills .....	3	2	2	f	D	D	D	D	D	D	D	D
31511	Hosiery and sock mills .....	—	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	—	1	1	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	5	34	14	1 232	21 619	1 120	1 983	18 044	130 197	68 617	203 061	D
31521	Cut and sew apparel contractors .....	9	17	6	e	D	D	D	D	D	D	D	84
315211	Men's and boys' cut and sew apparel contractors .....	9	6	5	383	7 128	350	637	6 157	11 837	721	12 758	69
31522	Men's and boys' cut and sew apparel manufacturing .....	1	8	6	477	7 593	425	718	6 263	60 858	37 926	101 711	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	9	1	1	c	D	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing .....	—	4	4	e	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	9	7	2	e	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	9	2	1	e	D	D	D	D	D	D	D	D
3159	Apparel accessories and other apparel manufacturing .....	2	7	5	e	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	2	7	5	e	D	D	D	D	D	D	D	D
315991	Hat, cap, and millinery manufacturing .....	9	1	1	c	D	D	D	D	D	D	D	D
315992	Glove and mitten manufacturing .....	—	3	3	200	2 732	171	327	2 065	7 108	11 113	18 657	D
316	Leather and allied product manufacturing .....	3	25	11	2 186	37 258	1 971	3 690	28 319	75 176	81 848	154 973	D
3162	Footwear manufacturing .....	3	9	7	1 872	31 501	1 712	3 265	24 727	59 786	74 847	132 655	723
31621	Footwear manufacturing .....	3	9	7	1 872	31 501	1 712	3 265	24 727	59 786	74 847	132 655	723
316213	Men's footwear (except athletic) manufacturing .....	3	4	3	f	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) manufacturing .....	4	5	4	f	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	4	14	4	e	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	4	14	4	e	D	D	D	D	D	D	D	D
316999	All other leather goods manufacturing .....	6	7	2	219	3 395	188	288	2 246	9 577	4 178	13 746	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	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>ARKANSAS—Con.</b>													
321	Wood product manufacturing . . . . .	1	374	131	13 368	403 178	11 337	23 917	321 668	822 647	1 718 371	2 542 664	71 098
3211	Sawmills and wood preservation . . . . .	1	164	58	5 211	167 408	4 528	9 750	138 003	358 404	858 933	1 215 150	44 291
32111	Sawmills and wood preservation . . . . .	1	164	58	5 211	167 408	4 528	9 750	138 003	358 404	858 933	1 215 150	44 291
321113	Sawmills . . . . .	1	149	49	4 692	155 034	4 140	9 055	129 025	297 133	715 120	1 008 245	40 631
321114	Wood preservation . . . . .	—	15	9	519	12 374	388	695	8 978	61 271	143 813	206 905	3 660
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	—	45	22	3 663	130 158	3 163	7 015	105 512	217 989	517 283	736 336	11 860
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	—	45	22	3 663	130 158	3 163	7 015	105 512	217 989	517 283	736 336	11 860
321211	Hardwood veneer and plywood manufacturing . . . . .	1	7	4	372	9 642	326	595	7 228	19 971	70 734	90 533	D
321212	Softwood veneer and plywood manufacturing . . . . .	—	8	6	2 288	88 003	2 087	4 857	76 208	124 491	328 116	451 511	3 949
321213	Engineered wood member (except truss) manufacturing . . . . .	—	3	2	c	D	D	D	D	D	D	D	D
321214	Truss manufacturing . . . . .	4	22	5	e	D	D	D	D	D	D	D	610
321219	Reconstituted wood product manufacturing . . . . .	—	5	5	445	16 812	335	720	12 569	38 543	88 959	130 184	6 709
3219	Other wood product manufacturing . . . . .	2	165	51	4 494	105 612	3 646	7 152	78 153	246 254	342 155	591 178	14 947
32191	Millwork . . . . .	1	72	23	2 653	65 656	2 086	4 250	48 130	156 342	246 270	406 989	10 917
321911	Wood window and door manufacturing . . . . .	3	21	5	537	14 557	460	925	10 364	34 059	55 451	89 067	1 454
321912	Cut stock, resawing lumber, and planing . . . . .	1	33	11	1 318	29 714	928	2 017	21 059	72 394	128 500	205 905	6 218
321918	Other millwork (including flooring) . . . . .	1	18	7	798	21 385	698	1 308	16 707	49 889	62 319	112 017	3 245
32192	Wood container and pallet manufacturing . . . . .	1	51	20	997	20 774	850	1 650	16 401	39 945	42 833	82 961	2 258
321920	Wood container and pallet manufacturing . . . . .	1	51	20	997	20 774	850	1 650	16 401	39 945	42 833	82 961	2 258
32199	All other wood product manufacturing . . . . .	2	42	8	844	19 182	710	1 252	13 622	49 967	53 052	101 228	1 772
321991	Manufactured home (mobile home) manufacturing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product manufacturing . . . . .	4	34	7	f	D	D	D	D	D	D	D	1 496
322	Paper manufacturing . . . . .	—	75	51	11 511	500 543	9 450	18 864	376 896	1 905 427	1 776 019	3 664 392	158 480
3221	Pulp, paper, and paperboard mills . . . . .	—	6	6	5 134	285 040	4 213	8 545	220 110	1 087 152	1 043 185	2 121 987	89 192
32212	Paper mills . . . . .	—	3	3	3 051	176 844	2 509	4 973	136 435	742 609	577 994	1 319 541	D
322121	Paper (except newsprint) mills . . . . .	—	3	3	3 051	176 844	2 509	4 973	136 435	742 609	577 994	1 319 541	D
32213	Paperboard mills . . . . .	—	3	3	2 083	108 196	1 704	3 572	83 675	344 543	465 191	802 446	D
322130	Paperboard mills . . . . .	—	3	3	2 083	108 196	1 704	3 572	83 675	344 543	465 191	802 446	D
3222	Converted paper product manufacturing . . . . .	—	69	45	6 377	215 503	5 237	10 319	156 786	818 275	732 834	1 542 405	69 288
32221	Paperboard container manufacturing . . . . .	—	42	26	3 155	108 393	2 582	5 330	76 759	309 569	479 157	781 983	49 714
322211	Corrugated and solid fiber box manufacturing . . . . .	—	29	18	1 971	66 059	1 544	3 136	42 266	163 428	337 714	497 819	27 508
322212	Folding paperboard box manufacturing . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, and similar products manufacturing . . . . .	1	7	3	175	5 043	148	272	3 965	13 759	19 346	32 999	D
322215	Nonfolding sanitary food container manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing . . . . .	—	16	13	1 762	58 769	1 465	3 137	42 854	149 922	163 524	312 718	D
322224	Uncoated paper and multiwall bag manufacturing . . . . .	—	12	10	1 481	49 980	1 246	2 714	37 265	127 396	141 637	267 397	7 357
322226	Surface-coated paperboard manufacturing . . . . .	—	2	2	c	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing . . . . .	1	6	4	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing . . . . .	1	4	3	1 340	45 107	1 092	1 640	34 879	353 456	85 312	437 385	D
323	Printing and related support activities . . . . .	2	268	36	4 031	134 378	2 943	5 152	84 843	318 843	205 135	525 930	19 410
3231	Printing and related support activities . . . . .	2	268	36	4 031	134 378	2 943	5 152	84 843	318 843	205 135	525 930	19 410
32311	Printing . . . . .	2	253	35	3 938	132 012	2 877	5 058	83 286	313 479	203 248	518 667	19 131
323110	Commercial lithographic printing . . . . .	1	113	19	2 294	74 878	1 713	2 889	46 984	163 958	107 410	272 781	12 914
323112	Commercial flexographic printing . . . . .	2	8	4	569	23 064	399	818	14 560	50 496	35 830	86 471	2 791
323113	Commercial screen printing . . . . .	4	39	2	221	6 375	158	282	3 290	11 027	9 202	20 341	1 144
323114	Quick printing . . . . .	4	57	1	196	5 278	126	202	2 923	12 112	7 495	19 592	341
323116	Manifold business forms printing . . . . .	4	5	2	e	D	D	D	D	D	D	D	1 190
323119	Other commercial printing . . . . .	3	18	5	178	5 295	133	193	3 383	11 469	6 917	18 440	488

**Table 1. Industry Statistics for the State: 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>ARKANSAS—Con.</b>													
324	Petroleum and coal products manufacturing .....	—	31	10	1 050	44 921	451	933	17 776	366 744	1 125 423	1 485 809	19 304
3241	Petroleum and coal products manufacturing .....	—	31	10	1 050	44 921	451	933	17 776	366 744	1 125 423	1 485 809	19 304
32411	Petroleum refineries .....	—	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	2	2	f	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	23	5	e	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing .....	—	19	1	c	D	D	D	D	D	D	D	3 488
324122	Asphalt shingle and coating materials manufacturing .....	—	4	4	238	8 743	104	200	2 171	54 214	63 017	116 613	D
32419	Other petroleum and coal products manufacturing .....	—	6	3	c	D	D	D	D	D	D	D	398
324191	Petroleum lubricating oil and grease manufacturing .....	—	6	3	c	D	D	D	D	D	D	D	398
325	Chemical manufacturing .....	—	96	32	6 299	270 016	4 484	8 134	164 813	1 166 682	1 151 620	2 309 793	78 473
3251	Basic chemical manufacturing .....	—	21	8	1 963	106 166	1 264	2 394	65 128	479 189	344 765	810 946	32 825
32518	Other basic inorganic chemical manufacturing .....	1	7	2	c	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical manufacturing .....	1	6	1	130	5 974	73	161	2 972	37 156	21 852	60 128	D
32519	Other basic organic chemical manufacturing .....	—	9	5	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	6	4	1 683	93 539	1 095	2 080	58 404	418 844	307 585	711 037	28 805
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	—	6	4	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	—	5	4	332	13 905	232	459	9 055	75 850	156 830	231 832	D
325211	Plastics material and resin manufacturing .....	—	5	4	332	13 905	232	459	9 055	75 850	156 830	231 832	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing .....	1	16	7	523	21 392	310	588	11 663	69 349	123 139	191 745	7 095
32531	Fertilizer manufacturing .....	—	12	4	343	15 599	184	405	7 838	45 803	108 440	153 593	6 343
325311	Nitrogenous fertilizer manufacturing .....	—	4	2	c	D	D	D	D	D	D	D	D
32532	Pesticide and other agricultural chemical manufacturing .....	7	4	3	180	5 793	126	183	3 825	23 546	14 699	38 152	752
325320	Pesticide and other agricultural chemical manufacturing .....	7	4	3	180	5 793	126	183	3 825	23 546	14 699	38 152	752
3255	Paint, coating, and adhesive manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .....	1	17	7	2 278	82 416	1 804	3 229	53 097	395 737	376 334	771 322	23 924
32562	Toilet preparation manufacturing .....	1	8	5	2 194	79 163	1 736	3 111	50 684	376 106	365 761	741 036	23 204
325620	Toilet preparation manufacturing .....	1	8	5	2 194	79 163	1 736	3 111	50 684	376 106	365 761	741 036	23 204
3259	Other chemical product and preparation manufacturing .....	—	23	5	831	27 071	737	1 228	21 687	98 513	92 881	192 574	D
32592	Explosives manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
325920	Explosives manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing .....	1	17	2	413	17 557	367	762	14 737	75 508	70 917	145 607	4 935
325998	All other miscellaneous chemical product and preparation manufacturing .....	—	10	2	395	16 942	356	742	14 380	73 986	68 467	141 635	4 850
326	Plastics and rubber products manufacturing .....	—	164	95	15 720	500 147	12 530	24 807	361 884	1 617 271	1 501 709	3 107 260	92 925
3261	Plastics product manufacturing .....	—	128	79	9 349	265 620	7 640	15 536	182 934	908 261	929 708	1 825 391	66 710
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	—	8	8	1 740	66 323	1 517	3 407	53 358	264 283	252 068	509 601	D
326111	Plastics bag manufacturing .....	—	4	4	1 173	48 480	1 007	2 342	38 967	194 731	203 980	391 613	9 174
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	—	1	1	c	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	1 428
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	—	9	6	601	21 421	471	1 001	12 841	57 518	183 029	245 002	D
326121	Unlaminated plastics profile shape manufacturing .....	—	3	1	c	D	D	D	D	D	D	D	D
326122	Plastics pipe and pipe fitting manufacturing .....	1	6	5	e	D	D	D	D	D	D	D	D

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		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>ARKANSAS—Con.</b>													
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32614	Polystyrene foam product manufacturing .....	—	11	6	507	13 444	407	821	9 327	57 312	30 342	86 001	6 559
326140	Polystyrene foam product manufacturing .....	—	11	6	507	13 444	407	821	9 327	57 312	30 342	86 001	6 559
32615	Urethane and other foam product (except polystyrene) manufacturing .....	1	10	7	613	14 371	523	673	9 385	45 177	55 146	99 534	3 835
326150	Urethane and other foam product (except polystyrene) manufacturing .....	1	10	7	613	14 371	523	673	9 385	45 177	55 146	99 534	3 835
32616	Plastics bottle manufacturing ..	—	4	3	c	D	D	D	D	D	D	D	2 684
326160	Plastics bottle manufacturing .....	—	4	3	c	D	D	D	D	D	D	D	2 684
32619	Other plastics product manufacturing .....	1	85	48	5 756	145 406	4 616	9 389	94 806	467 499	389 377	850 369	35 855
326191	Plastics plumbing fixture manufacturing .....	1	8	3	303	7 954	220	410	4 071	17 438	16 433	33 424	735
326199	All other plastics product manufacturing .....	1	77	45	5 453	137 452	4 396	8 979	90 735	450 061	372 944	816 945	35 120
3262	Rubber product manufacturing ...	—	36	16	6 371	234 527	4 890	9 271	178 950	709 010	572 001	1 281 869	26 215
32621	Tire manufacturing .....	1	15	5	h	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	1	5	4	h	D	D	D	D	D	D	D	D
326212	Tire retreading .....	1	10	1	c	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing ..	—	3	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	—	18	9	2 792	81 377	2 120	3 927	58 411	233 080	286 342	517 358	D
326291	Rubber product manufacturing for mechanical use .....	—	10	3	1 513	49 232	1 253	2 620	37 511	105 532	89 754	195 548	D
326299	All other rubber product manufacturing .....	—	8	6	1 279	32 145	867	1 307	20 900	127 548	196 588	321 810	D
327	Nonmetallic mineral product manufacturing .....	2	204	60	3 968	124 745	3 096	6 335	90 196	428 912	309 615	732 141	34 654
3271	Clay product and refractory manufacturing .....	5	17	6	e	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	9	9	1	c	D	D	D	D	D	D	D	288
327112	Vitreous china, fine earthenware, and other pottery product manufacturing .....	9	9	1	c	D	D	D	D	D	D	D	288
32712	Clay building material and refractories manufacturing ....	4	8	5	e	D	D	D	D	D	D	D	D
327121	Brick and structural clay tile manufacturing .....	4	7	5	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	6	16	5	561	16 207	452	936	11 892	36 714	31 280	66 954	1 356
32721	Glass and glass product manufacturing .....	6	16	5	561	16 207	452	936	11 892	36 714	31 280	66 954	1 356
327213	Glass container manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	1	8	3	213	5 140	186	412	3 692	13 367	18 661	30 415	274
3273	Cement and concrete product manufacturing .....	2	142	35	2 214	68 970	1 702	3 443	50 039	185 782	155 055	336 393	25 244
32731	Cement manufacturing .....	—	2	2	c	D	D	D	D	D	D	D	D
327310	Cement manufacturing .....	—	2	2	c	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	2	93	21	1 181	36 428	982	1 988	30 012	88 017	91 861	179 856	9 366
327320	Ready-mix concrete manufacturing .....	2	93	21	1 181	36 428	982	1 988	30 012	88 017	91 861	179 856	9 366
32733	Concrete pipe, brick, and block manufacturing .....	1	20	8	e	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing .....	—	15	5	304	8 202	176	305	3 522	24 712	16 947	38 625	4 543
327332	Concrete pipe manufacturing .....	6	5	3	c	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	3	27	4	404	11 549	291	612	7 045	27 113	11 474	38 428	684
327390	Other concrete product manufacturing .....	3	27	4	404	11 549	291	612	7 045	27 113	11 474	38 428	684
3274	Lime and gypsum product manufacturing .....	1	5	3	426	15 880	339	772	11 913	102 497	80 593	183 398	D
32742	Gypsum product manufacturing .....	1	3	2	e	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing .....	1	3	2	e	D	D	D	D	D	D	D	D

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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>ARKANSAS—Con.</b>													
327	Nonmetallic mineral product manufacturing—Con.												
3279	Other nonmetallic mineral product manufacturing .....	—	24	11	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	—	20	10	297	9 043	229	448	5 816	39 359	26 128	65 108	D
327992	Ground or treated mineral and earth manufacturing ...	—	4	4	121	4 436	100	202	3 031	21 577	9 752	30 999	1 178
331	Primary metal manufacturing .....	—	62	44	8 379	347 812	6 940	14 905	273 302	1 415 419	1 946 211	3 335 753	80 182
3311	Iron and steel mills and ferroalloy manufacturing .....	—	6	6	2 319	144 062	1 836	4 019	111 659	772 075	987 661	1 756 252	35 250
33111	Iron and steel mills and ferroalloy manufacturing .....	—	6	6	2 319	144 062	1 836	4 019	111 659	772 075	987 661	1 756 252	35 250
331111	Iron and steel mills .....	—	5	5	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	—	11	8	2 153	71 841	1 818	4 086	59 558	229 397	342 240	574 439	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	6	5	1 505	45 315	1 274	2 921	36 889	182 126	203 792	387 012	13 767
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	6	5	1 505	45 315	1 274	2 921	36 889	182 126	203 792	387 012	13 767
33122	Rolling and drawing of purchased steel .....	—	5	3	648	26 526	544	1 165	22 669	47 271	138 448	187 427	D
331222	Steel wire drawing .....	—	5	3	648	26 526	544	1 165	22 669	47 271	138 448	187 427	D
3313	Alumina and aluminum production and processing .....	2	13	10	1 152	50 620	897	1 950	35 834	203 544	284 631	471 398	13 622
33131	Alumina and aluminum production and processing ...	2	13	10	1 152	50 620	897	1 950	35 834	203 544	284 631	471 398	13 622
331311	Alumina refining .....	—	2	2	e	D	D	D	D	D	D	D	D
331314	Secondary smelting and alloying of aluminum .....	—	2	2	c	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing .....	5	4	3	432	19 596	308	627	13 040	76 748	105 293	178 074	D
331316	Aluminum extruded product manufacturing .....	—	3	3	223	6 099	185	402	4 562	13 417	14 969	29 493	387
3314	Nonferrous metal (except aluminum) production and processing .....	—	11	5	975	29 254	851	1 867	23 649	84 976	194 296	271 391	D
33142	Copper rolling, drawing, extruding, and alloying .....	—	6	5	959	28 690	839	1 844	23 253	82 126	190 377	264 622	D
331421	Copper rolling, drawing, and extruding .....	—	3	2	f	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing .....	—	3	3	e	D	D	D	D	D	D	D	D
3315	Foundries .....	1	21	15	1 780	52 035	1 538	2 983	42 602	125 427	137 383	262 273	D
33151	Ferrous metal foundries .....	3	8	5	279	7 694	213	450	5 580	18 612	10 047	28 919	D
331511	Iron foundries .....	3	6	5	e	D	D	D	D	D	D	D	982
33152	Nonferrous metal foundries ...	—	13	10	1 501	44 341	1 325	2 533	37 022	106 815	127 336	233 354	D
331521	Aluminum die-casting foundries .....	—	5	3	f	D	D	D	D	D	D	D	2 404
331524	Aluminum foundries (except die-casting) .....	1	3	2	e	D	D	D	D	D	D	D	D
331525	Copper foundries (except die-casting) .....	3	3	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	525	140	19 944	639 124	15 703	30 944	436 305	1 741 400	1 427 887	3 150 278	78 150
3321	Forging and stamping .....	2	14	6	466	14 897	311	676	7 088	21 766	38 570	59 381	1 089
33211	Forging and stamping .....	2	14	6	466	14 897	311	676	7 088	21 766	38 570	59 381	1 089
332116	Metal stamping .....	4	7	4	211	6 139	144	295	3 481	13 706	8 933	22 479	386
332117	Powder metallurgy part manufacturing .....	—	2	1	c	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	—	14	6	1 135	33 034	1 029	2 006	26 084	106 963	51 281	155 735	1 605
33221	Cutlery and handtool manufacturing .....	—	14	6	1 135	33 034	1 029	2 006	26 084	106 963	51 281	155 735	1 605
332211	Cutlery and flatware (except precious) manufacturing ...	1	6	1	118	2 947	103	166	2 181	7 033	4 737	12 117	48
332212	Hand and edge tool manufacturing .....	—	8	5	1 017	30 087	926	1 840	23 903	99 930	46 544	143 618	1 557
3323	Architectural and structural metals manufacturing .....	1	144	48	7 144	238 202	5 472	10 768	158 940	570 038	412 596	989 845	16 527
33231	Plate work and fabricated structural product manufacturing .....	1	71	29	4 332	141 044	3 481	7 014	102 407	362 387	243 999	608 004	9 375
332311	Prefabricated metal building and component manufacturing .....	2	17	8	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	—	52	19	3 533	112 447	2 991	5 987	88 538	250 771	169 385	422 584	6 679

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<b>ARKANSAS—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing—Con.												
33232	Ornamental and architectural metal products manufacturing .....	1	73	19	2 812	97 158	1 991	3 754	56 533	207 651	168 597	381 841	7 152
332321	Metal window and door manufacturing .....	—	13	8	2 094	71 054	1 483	2 856	41 987	149 441	130 183	285 939	3 648
332322	Sheet metal work manufacturing .....	1	36	10	589	22 857	414	777	12 621	51 888	32 191	83 379	3 358
332323	Ornamental and architectural metal work manufacturing ..	4	24	1	129	3 247	94	121	1 925	6 322	6 223	12 523	146
3324	Boiler, tank, and shipping container manufacturing .....	1	17	10	1 649	57 842	1 403	2 856	45 016	156 021	214 550	372 083	3 973
33241	Power boiler and heat exchanger manufacturing ....	8	3	2	319	12 417	243	484	8 393	26 755	20 323	51 389	D
332410	Power boiler and heat exchanger manufacturing ..	8	3	2	319	12 417	243	484	8 393	26 755	20 323	51 389	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	8	6	g	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	—	2	2	e	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	1 985
3325	Hardware manufacturing .....	—	7	2	734	15 465	606	816	8 079	39 596	26 478	65 956	209
33251	Hardware manufacturing .....	—	7	2	734	15 465	606	816	8 079	39 596	26 478	65 956	209
332510	Hardware manufacturing ....	—	7	2	734	15 465	606	816	8 079	39 596	26 478	65 956	209
3326	Spring and wire product manufacturing .....	1	18	11	1 002	25 627	742	1 272	17 130	66 041	70 226	135 920	7 602
33261	Spring and wire product manufacturing .....	1	18	11	1 002	25 627	742	1 272	17 130	66 041	70 226	135 920	7 602
332618	Other fabricated wire product manufacturing .....	1	18	11	1 002	25 627	742	1 272	17 130	66 041	70 226	135 920	7 602
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	212	22	1 642	51 595	1 240	2 317	35 553	111 948	58 320	171 503	7 372
33271	Machine shops .....	3	193	15	1 286	41 541	991	1 863	28 984	88 625	40 413	129 027	5 861
332710	Machine shops .....	3	193	15	1 286	41 541	991	1 863	28 984	88 625	40 413	129 027	5 861
33272	Turned product and screw, nut, and bolt manufacturing .....	—	19	7	356	10 054	249	454	6 569	23 323	17 907	42 476	1 511
332721	Precision turned product manufacturing .....	—	12	5	189	4 922	147	232	3 598	11 212	7 698	19 849	1 300
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	—	7	2	167	5 132	102	222	2 971	12 111	10 209	22 627	211
3328	Coating, engraving, heat treating, and allied activities .....	—	31	8	826	28 050	721	1 649	22 804	63 832	68 876	131 276	1 883
33281	Coating, engraving, heat treating, and allied activities ..	—	31	8	826	28 050	721	1 649	22 804	63 832	68 876	131 276	1 883
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	16	6	206	6 444	163	329	3 941	14 134	42 472	55 471	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	14	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	—	68	27	5 346	174 412	4 179	8 584	115 611	605 195	486 990	1 068 579	37 890
33291	Metal valve manufacturing ....	—	12	10	2 528	75 839	1 958	3 969	45 320	257 890	182 626	449 247	20 818
332911	Industrial valve manufacturing .....	—	6	6	1 440	44 746	1 120	2 432	27 713	154 919	65 805	224 793	D
332912	Fluid power valve and hose fitting manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
332919	Other metal valve and pipe fitting manufacturing .....	—	2	1	c	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	56	17	2 818	98 573	2 221	4 615	70 291	347 305	304 364	619 332	17 072
332992	Small arms ammunition manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing .....	—	13	8	780	27 383	597	1 250	18 095	81 725	48 465	131 341	2 440
332998	Enameled iron and metal sanitary ware manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	35	6	364	10 388	292	539	7 404	22 568	19 296	41 844	6 669
333	Machinery manufacturing .....	—	247	84	14 788	467 515	10 745	20 951	300 573	1 621 330	1 642 967	3 275 878	80 149

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<b>ARKANSAS—Con.</b>													
333	Machinery manufacturing—Con.												
3331	Agriculture, construction, and mining machinery manufacturing .....	—	38	12	2 605	60 683	2 154	4 014	40 394	141 826	326 815	452 632	23 132
33311	Agricultural implement manufacturing .....	—	28	7	2 289	49 372	1 961	3 607	34 834	118 240	304 241	407 844	D
333111	Farm machinery and equipment manufacturing ..	3	24	4	e	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	—	4	3	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	—	8	4	c	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	—	8	4	c	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	1	31	8	618	24 309	347	657	10 770	34 714	50 813	92 773	4 899
33321	Sawmill and woodworking machinery manufacturing ....	—	7	3	313	12 144	155	328	4 525	15 394	36 256	58 778	D
333210	Sawmill and woodworking machinery manufacturing ..	—	7	3	313	12 144	155	328	4 525	15 394	36 256	58 778	D
33329	Other industrial machinery manufacturing .....	3	20	5	282	11 151	182	311	5 913	17 482	13 166	31 002	D
333298	All other industrial machinery manufacturing .....	3	10	3	169	6 597	103	192	3 175	7 661	7 704	15 327	260
3333	Commercial and service industry machinery manufacturing .....	—	20	9	875	29 730	491	979	13 490	112 781	236 555	350 063	3 062
33331	Commercial and service industry machinery manufacturing .....	—	20	9	875	29 730	491	979	13 490	112 781	236 555	350 063	3 062
333319	Other commercial and service industry machinery manufacturing .....	—	13	7	749	25 150	398	800	10 725	103 489	231 283	335 503	2 359
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	25	14	4 645	156 833	3 399	6 969	117 482	867 702	535 962	1 420 147	21 406
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	25	14	4 645	156 833	3 399	6 969	117 482	867 702	535 962	1 420 147	21 406
333411	Air purification equipment manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	17	10	4 260	148 341	3 181	6 552	112 399	840 185	520 018	1 375 912	18 567
3335	Metalworking machinery manufacturing .....	7	63	11	1 418	56 832	997	2 029	35 796	102 897	63 981	170 766	3 912
33351	Metalworking machinery manufacturing .....	7	63	11	1 418	56 832	997	2 029	35 796	102 897	63 981	170 766	3 912
333511	Industrial mold manufacturing .....	2	19	—	127	4 188	84	137	2 760	8 248	2 280	10 344	191
333513	Machine tool (metal forming types) manufacturing .....	3	2	2	c	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	4	29	5	304	10 647	229	419	7 413	16 930	7 489	24 371	520
333515	Cutting tool and machine tool accessory manufacturing...	9	11	4	f	D	D	D	D	D	D	D	3 052
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	7	3	343	10 170	275	517	7 161	25 406	22 842	49 268	896
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	7	3	343	10 170	275	517	7 161	25 406	22 842	49 268	896
333618	Other engine equipment manufacturing .....	—	4	2	255	7 722	206	379	5 238	17 830	19 915	38 262	D
3339	Other general purpose machinery manufacturing .....	—	63	27	4 284	128 958	3 082	5 786	75 480	336 004	405 999	740 229	22 842
33391	Pump and compressor manufacturing .....	1	6	1	236	9 138	144	335	4 034	21 198	37 128	58 404	D
333911	Pump and pumping equipment manufacturing ..	—	3	1	c	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	26	11	1 932	57 585	1 329	2 495	33 534	102 846	119 035	221 580	7 547
333921	Elevator and moving stairway manufacturing .....	—	1	1	c	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	15	6	1 337	40 676	904	1 727	24 141	78 812	70 608	147 901	6 213
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	4	8	3	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>ARKANSAS—Con.</b>													
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing—Con.												
33399	All other general purpose machinery manufacturing . . . .	—	31	15	2 116	62 235	1 609	2 956	37 912	211 960	249 836	460 245	D
333991	Power-driven handtool manufacturing . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing . . . . .	4	8	4	183	7 831	141	207	5 290	11 295	9 714	20 854	375
333995	Fluid power cylinder and actuator manufacturing . . . .	—	2	1	c	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing . . . . .	2	17	7	467	14 146	310	584	7 305	54 707	21 440	75 762	2 562
334	Computer and electronic product manufacturing . . . . .	—	47	20	6 434	174 011	4 821	9 659	100 330	532 742	748 357	1 291 746	36 557
3343	Audio and video equipment manufacturing . . . . .	—	7	6	1 432	41 768	1 044	1 986	22 118	122 422	460 107	591 933	6 825
33431	Audio and video equipment manufacturing . . . . .	—	7	6	1 432	41 768	1 044	1 986	22 118	122 422	460 107	591 933	6 825
334310	Audio and video equipment manufacturing . . . . .	—	7	6	1 432	41 768	1 044	1 986	22 118	122 422	460 107	591 933	6 825
3344	Semiconductor and other electronic component manufacturing . . . . .	—	13	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing . . . . .	—	13	6	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing . . . . .	—	5	1	318	9 174	190	355	4 021	21 184	22 873	45 328	338
334416	Electronic coil, transformer, and other inductor manufacturing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing . . . . .	—	4	3	764	18 351	525	965	9 548	22 170	44 822	67 806	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	15	7	2 901	76 876	2 155	4 230	41 751	262 291	134 300	395 580	20 979
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	15	7	2 901	76 876	2 155	4 230	41 751	262 291	134 300	395 580	20 979
334510	Electromedical and electrotherapeutic apparatus manufacturing . . . . .	—	2	1	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing . . . . .	2	4	3	520	13 423	393	567	6 496	35 404	13 504	45 146	D
334514	Totalizing fluid meter and counting device manufacturing . . . . .	—	2	2	c	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing . . . . .	—	'67	'46	'13 640	'451 097	'11 315	'23 042	'336 174	'1 569 741	'1 449 597	'3 023 260	'73 235
3351	Electric lighting equipment manufacturing . . . . .	'—	'12	'6	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing . . . . .	'—	'11	'6	f	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture manufacturing . . . . .	'—	'5	'3	'167	'5 683	'92	'203	'1 831	'23 257	'35 361	'55 280	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing . . . . .	—	6	4	h	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing . . . . .	—	3	2	c	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing . . . . .	—	3	2	h	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing . . . . .	—	1	1	h	D	D	D	D	D	D	D	D
335224	Household laundry equipment manufacturing . . . . .	—	1	1	c	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	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>ARKANSAS—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing .....	—	28	19	5 704	175 270	4 720	9 359	132 064	636 004	454 511	1 080 701	19 162
33531	Electrical equipment manufacturing .....	—	28	19	5 704	175 270	4 720	9 359	132 064	636 004	454 511	1 080 701	19 162
335311	Power, distribution, and specialty transformer manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	—	15	12	4 649	138 960	3 926	7 740	109 495	559 167	353 847	906 498	17 511
335313	Switchgear and switchboard apparatus manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	2	6	3	155	6 054	83	163	1 898	26 414	24 643	45 488	499
3359	Other electrical equipment and component manufacturing .....	1	21	17	3 136	108 778	2 328	4 813	66 600	351 702	307 425	662 726	30 402
33591	Battery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing .....	—	6	6	918	31 859	673	1 363	18 987	86 559	123 860	216 207	4 397
335929	Other communication and energy wire manufacturing .....	—	6	6	918	31 859	673	1 363	18 987	86 559	123 860	216 207	4 397
33593	Wiring device manufacturing .....	1	8	6	g	D	D	D	D	D	D	D	15 826
335931	Current-carrying wiring device manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	2	3	3	740	23 394	610	1 249	17 161	102 480	64 818	169 019	D
33599	All other electrical equipment and component manufacturing .....	3	6	4	e	D	D	D	D	D	D	D	D
335991	Carbon and graphite product manufacturing .....	2	2	2	c	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing .....	5	4	2	c	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	133	68	15 730	492 996	11 991	23 561	336 103	1 213 234	2 346 130	3 644 670	129 473
3361	Motor vehicle manufacturing .....	—	6	2	g	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	4	1	c	D	D	D	D	D	D	D	223
336111	Automobile manufacturing .....	—	4	1	c	D	D	D	D	D	D	D	223
33612	Heavy duty truck manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	4	32	15	g	D	D	D	D	D	D	D	2 762
33621	Motor vehicle body and trailer manufacturing .....	4	32	15	g	D	D	D	D	D	D	D	2 762
336211	Motor vehicle body manufacturing .....	—	9	4	381	8 191	324	629	5 878	16 270	23 798	39 394	358
336212	Truck trailer manufacturing .....	5	10	6	870	20 372	735	1 313	15 907	66 271	112 851	178 057	2 010
336214	Travel trailer and camper manufacturing .....	1	12	5	331	7 754	275	531	5 507	15 665	25 472	40 997	D
3363	Motor vehicle parts manufacturing .....	—	45	25	6 014	179 841	4 620	9 919	121 845	481 857	465 583	942 318	85 785
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	—	14	8	g	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	—	13	7	1 130	28 826	736	1 702	18 163	103 506	145 286	248 534	8 700
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system manufacturing .....	—	4	3	299	7 995	260	517	6 238	32 667	50 019	81 090	D
336340	Motor vehicle brake system manufacturing .....	—	4	3	299	7 995	260	517	6 238	32 667	50 019	81 090	D
33635	Motor vehicle transmission and power train parts manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	1	10	7	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	1	9	6	2 294	75 785	1 792	4 023	53 409	195 092	147 534	342 548	28 423

**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>ARKANSAS—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3364	Aerospace product and parts manufacturing .....	—	19	13	4 209	176 257	2 788	5 571	115 077	380 036	1 252 730	1 721 585	25 893
33641	Aerospace product and parts manufacturing .....	—	19	13	4 209	176 257	2 788	5 571	115 077	380 036	1 252 730	1 721 585	25 893
336411	Aircraft manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	9	4	1	e	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	8	7	g	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	1	23	9	g	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	1	23	9	g	D	D	D	D	D	D	D	D
336612	Boat building .....	1	21	9	1 494	38 181	1 230	2 493	27 683	96 477	128 560	225 037	D
337	Furniture and related product manufacturing .....	—	221	48	8 284	209 982	6 716	12 527	147 792	563 777	453 433	1 025 827	21 137
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	185	34	5 528	143 319	4 508	8 253	99 991	376 543	293 494	673 223	11 585
33711	Wood kitchen cabinet and countertop manufacturing .....	3	104	7	709	16 144	586	1 008	10 459	33 004	21 039	53 923	1 530
337110	Wood kitchen cabinet and countertop manufacturing .....	3	104	7	709	16 144	586	1 008	10 459	33 004	21 039	53 923	1 530
33712	Household and institutional furniture manufacturing .....	—	81	27	4 819	127 175	3 922	7 245	89 532	343 539	272 455	619 300	10 055
337121	Upholstered household furniture manufacturing .....	—	11	4	913	21 786	748	1 449	15 643	74 643	78 102	154 051	1 114
337122	Nonupholstered wood household furniture manufacturing .....	2	41	10	1 665	39 571	1 383	2 501	28 680	79 175	86 829	162 871	2 716
337124	Metal household furniture manufacturing .....	3	7	4	333	8 332	276	574	5 807	20 541	10 129	31 118	288
337127	Institutional furniture manufacturing .....	—	16	8	1 815	55 360	1 439	2 648	37 975	170 027	86 003	256 953	5 823
3372	Office furniture (including fixtures) manufacturing .....	—	30	13	2 640	64 004	2 124	4 091	46 398	181 846	154 122	341 356	D
33721	Office furniture (including fixtures) manufacturing .....	—	30	13	2 640	64 004	2 124	4 091	46 398	181 846	154 122	341 356	D
337211	Wood office furniture manufacturing .....	—	5	3	435	5 913	288	633	4 329	13 946	17 886	33 108	D
337212	Custom architectural woodwork and millwork manufacturing .....	—	8	2	338	9 563	266	559	7 013	16 149	11 641	28 846	D
337214	Office furniture (except wood) manufacturing .....	—	4	3	396	9 601	325	496	7 015	87 139	43 722	130 368	D
337215	Showcase, partition, shelving, and locker manufacturing .....	—	13	5	1 471	38 927	1 245	2 403	28 041	64 612	80 873	149 034	6 195
3379	Other furniture related product manufacturing .....	—	6	1	116	2 659	84	183	1 403	5 388	5 817	11 248	D
33791	Mattress manufacturing .....	—	4	1	c	D	D	D	D	D	D	D	D
337910	Mattress manufacturing .....	—	4	1	c	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	3	242	45	6 235	167 423	4 198	8 288	88 264	435 775	313 033	746 946	17 840
3391	Medical equipment and supplies manufacturing .....	4	85	8	1 163	38 999	719	1 411	20 026	96 000	44 653	140 182	3 716
33911	Medical equipment and supplies manufacturing .....	4	85	8	1 163	38 999	719	1 411	20 026	96 000	44 653	140 182	3 716
339111	Laboratory apparatus and furniture manufacturing .....	9	1	1	c	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing .....	—	19	3	203	8 443	90	176	3 727	20 085	12 577	32 307	649
339114	Dental equipment and supplies manufacturing .....	—	6	1	c	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	9	4	1	c	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	2	52	2	361	10 930	260	520	7 698	21 455	4 591	26 013	545
3399	Other miscellaneous manufacturing .....	2	157	37	5 072	128 424	3 479	6 877	68 238	339 775	268 380	606 764	14 124
33992	Sporting and athletic goods manufacturing .....	3	32	9	1 088	27 103	701	1 395	11 993	85 012	42 737	126 829	3 110
339920	Sporting and athletic goods manufacturing .....	3	32	9	1 088	27 103	701	1 395	11 993	85 012	42 737	126 829	3 110
33993	Doll, toy, and game manufacturing .....	—	4	1	207	5 885	146	306	3 123	12 571	8 545	21 722	289
339932	Game, toy, and children's vehicle manufacturing .....	—	4	1	207	5 885	146	306	3 123	12 571	8 545	21 722	289

**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)				
<b>ARKANSAS—Con.</b>												
339	Miscellaneous manufacturing—Con.											
3399	Other miscellaneous manufacturing—Con.											
33994	Office supplies (except paper) manufacturing .....	9	9	2	e	D	D	D	D	D	D	D
339942	Lead pencil and art good manufacturing .....	9	2	1	e	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	50	4	478	13 782	318	565	6 940	29 659	20 527	50 108
339950	Sign manufacturing .....	2	50	4	478	13 782	318	565	6 940	29 659	20 527	50 108
33999	All other miscellaneous manufacturing .....	1	57	21	2 855	64 269	2 009	3 941	38 008	174 693	177 692	351 458
339991	Gasket, packing, and sealing device manufacturing .....	—	3	1	e	D	D	D	D	D	D	D
339992	Musical instrument manufacturing .....	—	4	1	e	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	2	42	17	2 169	45 293	1 446	2 722	24 033	116 775	121 689	241 526

<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.

<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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA</b>												
31-33	Manufacturing .....	1	788	258	39 979	1 295 298	30 843	59 807	862 132	4 554 808	4 922 385	9 366 451	266 102
311	Food manufacturing .....	2	50	22	4 696	118 786	3 905	7 542	84 876	910 021	623 346	1 345 007	D
3115	Dairy product manufacturing .....	9	5	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	9	4	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	12	7	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	2	12	7	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	4	1	e	D	D	D	D	D	D	D	D
311615	Poultry processing .....	2	6	6	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	6	19	7	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	7	16	5	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	18	2	f	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	-	12	2	f	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	5	2	f	D	D	D	D	D	D	D	D
314992	Tire cord and tire fabric mills .....	-	1	1	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	9	10	3	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	8	6	2	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	60	20	2 201	58 729	1 698	3 485	42 936	132 571	217 368	347 031	D
3211	Sawmills and wood preservation .....	-	17	7	f	D	D	D	D	D	D	D	2 284
32111	Sawmills and wood preservation .....	-	17	7	f	D	D	D	D	D	D	D	2 284
321113	Sawmills .....	-	13	6	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	31	11	g	D	D	D	D	D	D	D	D
32191	Millwork .....	-	12	4	f	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	1	7	3	e	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing .....	-	3	1	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	-	6	2	e	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	24	17	4 265	166 121	3 501	6 488	123 933	699 966	522 739	1 221 498	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	g	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	22	15	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	13	7	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	9	5	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing .....	-	6	6	f	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing .....	1	4	4	f	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing .....	-	3	2	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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>												
323	Printing and related support activities .....	3	102	17	1 471	49 712	1 014	1 880	28 721	127 257	72 799	199 044	D
3231	Printing and related support activities .....	3	102	17	1 471	49 712	1 014	1 880	28 721	127 257	72 799	199 044	D
32311	Printing .....	3	90	16	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	3	40	8	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	33	8	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	11	5	g	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	35	18	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	26	15	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	19	10	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	1	16	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	44	15	1 016	30 508	767	1 610	19 950	81 633	65 126	143 638	D
3273	Cement and concrete product manufacturing .....	3	34	11	f	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	4	18	5	e	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	4	18	5	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	3	10	4	e	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	3	10	4	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	14	9	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	—	4	3	f	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	2	2	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	2	2	f	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	—	2	1	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing .....	—	2	1	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
331311	Alumina refining .....	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	131	44	6 956	229 769	5 549	11 190	158 659	647 923	464 613	1 110 315	33 858
3323	Architectural and structural metals manufacturing .....	—	52	23	h	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	—	29	17	h	D	D	D	D	D	D	D	D
332311	Prefabricated metal building and component manufacturing .....	—	7	4	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	—	21	12	h	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing—Con.													
3323	Architectural and structural metals manufacturing—Con.													
33232	Ornamental and architectural metal products manufacturing .....	1	23	6	f	D	D	D	D	D	D	D	D	
332321	Metal window and door manufacturing .....	2	4	3	f	D	D	D	D	D	D	D	D	
332322	Sheet metal work manufacturing .....	—	14	3	e	D	D	D	D	D	D	D	D	
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	38	6	e	D	D	D	D	D	D	D	D	
3329	Other fabricated metal product manufacturing .....	—	19	9	g	D	D	D	D	D	D	D	D	
33291	Metal valve manufacturing ....	—	5	4	g	D	D	D	D	D	D	D	D	
332911	Industrial valve manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D	
332912	Fluid power valve and hose fitting manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D	
332913	Plumbing fixture fitting and trim manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D	
33299	All other fabricated metal product manufacturing .....	—	14	5	g	D	D	D	D	D	D	D	D	
332992	Small arms ammunition manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D	
332998	Enameled iron and metal sanitary ware manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D	
333	Machinery manufacturing .....	1	64	27	g	D	D	D	D	D	D	D	D	
3333	Commercial and service industry machinery manufacturing .....	—	8	4	e	D	D	D	D	D	D	D	D	
33331	Commercial and service industry machinery manufacturing .....	—	8	4	e	D	D	D	D	D	D	D	D	
333319	Other commercial and service industry machinery manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D	
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	2	7	5	e	D	D	D	D	D	D	D	D	
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	2	7	5	e	D	D	D	D	D	D	D	D	
3335	Metalworking machinery manufacturing .....	1	17	5	e	D	D	D	D	D	D	D	D	
33351	Metalworking machinery manufacturing .....	1	17	5	e	D	D	D	D	D	D	D	D	
3339	Other general purpose machinery manufacturing .....	1	18	9	f	D	D	D	D	D	D	D	D	
33399	All other general purpose machinery manufacturing ....	1	8	5		266	9 402	169	321	5 221	24 456	20 255	45 431	4 662
334	Computer and electronic product manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D	
3346	Manufacturing and reproducing magnetic and optical media.....	—	2	1	f	D	D	D	D	D	D	D	D	
33461	Manufacturing and reproducing magnetic and optical media...	—	2	1	f	D	D	D	D	D	D	D	D	
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	2	1	f	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, and component manufacturing.....	—	15	10	g	D	D	D	D	D	D	D	D	
3352	Household appliance manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D	
3353	Electrical equipment manufacturing .....	—	7	4	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment manufacturing .....	—	7	4	f	D	D	D	D	D	D	D	D	
335311	Power, distribution, and specialty transformer 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	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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing.....	—	5	4	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing...	—	3	2	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing.....	—	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing.....	—	30	13	h	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing.....	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing.....	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing.....	—	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing.....	—	10	4	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing.....	—	3	2	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing.....	—	3	2	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing.....	—	5	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing.....	—	5	3	g	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing.....	—	3	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing.....	—	57	12	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing.....	—	50	8	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing....	2	34	3	e	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing..	2	34	3	e	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing.....	—	16	5	g	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing.....	—	3	3	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing.....	1	64	11	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing.....	1	39	8	f	D	D	D	D	D	D	D	D
33995	Sign manufacturing.....	1	18	2	e	D	D	D	D	D	D	D	D
339950	Sign manufacturing.....	1	18	2	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing.....	—	13	4	e	D	D	D	D	D	D	D	395
<b>Little Rock-North Little Rock, AR Metropolitan Statistical Area</b>													
31-33	Manufacturing.....	—	618	191	28 183	938 433	21 275	40 713	600 287	3 101 807	3 731 692	6 899 810	195 284
311	Food manufacturing.....	1	34	11	1 391	40 283	1 101	2 159	25 833	205 466	345 014	550 934	13 182
3115	Dairy product manufacturing.....	9	4	1	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing.....	9	4	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing.....	—	6	2	598	13 433	527	961	10 606	85 901	64 296	150 795	D
31161	Animal slaughtering and processing.....	—	6	2	598	13 433	527	961	10 606	85 901	64 296	150 795	D
311611	Animal (except poultry) slaughtering.....	—	3	1	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing.....	8	5	2	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing.....	9	1	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing.....	9	1	1	e	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) manufacturing.....	9	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

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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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>												
	<b>Little Rock-North Little Rock, AR Metropolitan Statistical Area—Con.</b>												
321	Wood product manufacturing . . . . .	—	34	13	1 357	41 431	1 169	2 321	31 344	99 935	156 004	252 883	3 463
3211	Sawmills and wood preservation . . . . .	—	11	5	491	19 666	425	1 012	15 584	55 358	76 525	128 751	2 089
32111	Sawmills and wood preservation . . . . .	—	11	5	491	19 666	425	1 012	15 584	55 358	76 525	128 751	2 089
321113	Sawmills . . . . .	—	8	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	—	15	6	689	17 671	588	1 087	12 805	37 659	66 929	104 915	1 223
32191	Millwork . . . . .	1	8	3	313	8 513	263	518	6 016	20 239	35 251	55 112	986
321911	Wood window and door manufacturing . . . . .	1	5	3	297	7 968	253	499	5 781	19 203	33 920	52 737	D
32199	All other wood product manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing . . . . .	—	19	12	2 568	85 771	2 091	3 579	61 186	473 877	213 630	685 001	21 699
3222	Converted paper product manufacturing . . . . .	—	19	12	2 568	85 771	2 091	3 579	61 186	473 877	213 630	685 001	21 699
32221	Paperboard container manufacturing . . . . .	—	12	6	891	31 350	727	1 403	21 118	81 048	110 324	189 845	10 538
322211	Corrugated and solid fiber box manufacturing . . . . .	—	9	5	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	4	89	15	1 354	47 138	944	1 787	27 377	121 945	67 181	188 071	5 911
3231	Printing and related support activities . . . . .	4	89	15	1 354	47 138	944	1 787	27 377	121 945	67 181	188 071	5 911
32311	Printing . . . . .	4	79	15	1 307	45 682	904	1 730	26 436	118 431	66 361	183 737	D
323110	Commercial lithographic printing . . . . .	3	35	8	777	28 227	527	1 069	16 015	63 426	34 812	98 295	3 836
325	Chemical manufacturing . . . . .	1	28	7	1 953	77 516	1 349	2 253	38 003	396 210	390 815	794 991	22 538
3255	Paint, coating, and adhesive manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing . . . . .	1	10	5	g	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing . . . . .	1	5	4	g	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing . . . . .	1	5	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing . . . . .	2	29	14	1 095	34 434	736	1 444	18 711	95 754	64 860	158 371	8 566
3261	Plastics product manufacturing . . . . .	2	22	12	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	2	17	9	721	21 063	467	906	11 426	66 548	25 020	88 398	3 134
326199	All other plastics product manufacturing . . . . .	1	14	7	595	17 201	376	728	9 383	56 047	19 792	72 673	2 552
327	Nonmetallic mineral product manufacturing . . . . .	2	35	13	899	26 978	680	1 420	17 481	69 924	59 679	126 543	6 959
3273	Cement and concrete product manufacturing . . . . .	3	27	10	723	22 605	537	1 098	14 683	54 296	38 335	91 343	6 106
32732	Ready-mix concrete manufacturing . . . . .	5	13	4	265	10 140	225	470	7 865	19 911	19 998	39 847	1 405
327320	Ready-mix concrete manufacturing . . . . .	5	13	4	265	10 140	225	470	7 865	19 911	19 998	39 847	1 405
32739	Other concrete product manufacturing . . . . .	3	8	4	290	8 133	213	452	4 723	19 173	8 005	27 191	443
327390	Other concrete product manufacturing . . . . .	3	8	4	290	8 133	213	452	4 723	19 173	8 005	27 191	443

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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>												
	<b>Little Rock-North Little Rock, AR Metropolitan Statistical Area—Con.</b>												
331	Primary metal manufacturing .....	—	9	5	687	31 699	594	1 270	25 706	130 820	131 475	252 761	11 966
3312	Steel product manufacturing from purchased steel .....	—	2	1	e	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	—	2	1	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing .....	—	2	1	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
331311	Alumina refining .....	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	100	33	5 514	185 862	4 436	9 075	130 560	510 582	363 185	872 493	29 832
3323	Architectural and structural metals manufacturing .....	—	36	18	3 480	116 547	2 903	5 920	87 546	305 013	188 856	499 165	6 435
33231	Plate work and fabricated structural product manufacturing .....	—	20	12	2 686	85 696	2 415	4 878	72 968	232 881	134 300	367 225	5 082
332311	Prefabricated metal building and component manufacturing .....	—	6	3	269	10 458	186	428	5 796	39 437	33 475	71 462	D
332312	Fabricated structural metal manufacturing .....	—	14	9	2 417	75 238	2 229	4 450	67 172	193 444	100 825	295 763	D
33232	Ornamental and architectural metal products manufacturing .....	1	16	6	794	30 851	488	1 042	14 578	72 132	54 556	131 940	1 353
332321	Metal window and door manufacturing .....	1	3	3	f	D	D	D	D	D	D	D	340
332322	Sheet metal work manufacturing .....	—	8	3	254	12 673	158	346	5 915	35 548	21 131	55 990	1 001
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	34	6	288	9 626	211	421	6 558	21 905	18 253	41 313	D
3329	Other fabricated metal product manufacturing .....	—	13	5	1 552	53 774	1 165	2 434	32 622	172 129	149 428	313 700	D
33291	Metal valve manufacturing ....	—	3	2	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	10	3	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 .....	1	50	20	1 399	50 859	900	1 808	26 278	119 182	153 232	271 161	14 156
3339	Other general purpose machinery manufacturing .....	1	16	9	619	22 423	385	801	11 765	50 708	70 834	122 786	10 956
33399	All other general purpose machinery manufacturing ....	1	8	5	266	9 402	169	321	5 221	24 456	20 255	45 431	4 662
334	Computer and electronic product manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	—	2	1	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ...	—	2	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	2	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	10	6	1 113	40 294	694	1 566	18 218	148 032	71 811	220 740	D
3359	Other electrical equipment and component manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	—	3	2	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	—	2	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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>												
	<b>Little Rock-North Little Rock, AR Metropolitan Statistical Area—Con.</b>												
336	Transportation equipment manufacturing .....	-	26	10	4 036	131 788	2 993	4 816	89 247	295 047	1 370 460	1 752 855	18 975
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	47	11	2 056	63 982	1 581	2 988	41 379	192 456	101 877	294 457	7 662
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	40	7	1 823	56 444	1 433	2 668	38 229	170 195	85 038	256 158	D
33711	Wood kitchen cabinet and countertop manufacturing .....	2	28	3	e	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing .....	2	28	3	e	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	12	4	g	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	53	9	772	23 167	520	1 066	13 648	49 776	34 562	82 022	2 453
3399	Other miscellaneous manufacturing .....	1	31	6	627	18 058	457	944	11 268	38 982	30 885	67 712	2 114
33999	All other miscellaneous manufacturing .....	-	10	3	332	9 937	250	568	7 103	21 848	17 500	37 177	385
	<b>Pine Bluff, AR Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	-	90	37	7 330	234 260	6 063	12 237	174 975	1 066 349	686 409	1 583 387	53 446
311	Food manufacturing .....	-	8	6	2 225	50 553	1 922	3 761	40 354	590 704	115 417	516 548	7 279
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
3118	Bakeries and tortilla manufacturing .....	8	4	3	e	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	8	4	3	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	1	1	e	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	-	1	1	e	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	1	1	e	D	D	D	D	D	D	D	D
314992	Tire cord and tire fabric mills .....	-	1	1	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	9	2	1	e	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	5	5	1 697	80 350	1 410	2 909	62 747	226 089	309 109	536 497	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	g	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	14	5	454	15 745	318	664	9 514	41 313	36 197	78 949	1 043

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>LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA—Con.</b>												
	<b>Pine Bluff, AR Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing .....	2	12	6	265	7 976	192	361	4 881	11 779	15 107	29 118	562
335	Electrical equipment, appliance, and component manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
335311	Power, distribution, and specialty transformer manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
	<b>Searcy, AR Micropolitan Statistical Area</b>												
31-33	Manufacturing .....	3	80	30	4 466	122 605	3 505	6 857	86 870	386 652	504 284	883 254	17 372
311	Food manufacturing .....	9	8	5	1 080	27 950	882	1 622	18 689	113 851	162 915	277 525	D
3116	Animal slaughtering and processing .....	9	4	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	4	3	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	3	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	10	4	620	11 375	334	760	7 184	16 180	37 986	54 619	D
3219	Other wood product manufacturing .....	—	8	3	f	D	D	D	D	D	D	D	D
32191	Millwork .....	—	4	1	f	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing .....	—	2	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	1 473
3261	Plastics product manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	—	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	1	4	3	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	17	6	988	28 162	795	1 451	18 585	96 028	65 231	158 873	2 983
3329	Other fabricated metal product manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	—	2	2	e	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
332998	Enameled iron and metal sanitary ware manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component 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>ARKADELPHIA, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	30	12	2 362	69 820	2 048	4 181	51 900	135 037	243 457	386 224	11 467
311	Food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	2	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
321	Wood product manufacturing .....	-	9	4	843	29 851	753	1 675	23 867	53 304	111 333	165 631	2 435
3211	Sawmills and wood preservation ..	-	5	3	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	-	5	3	e	D	D	D	D	D	D	D	D
321113	Sawmills .....	-	5	3	e	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	2	1	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>BATESVILLE, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	53	17	4 751	135 878	3 994	8 520	98 882	454 001	506 881	959 341	32 441
311	Food manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	2	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	11	1	f	D	D	D	D	D	D	D	1 170
3329	Other fabricated metal product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve 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	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>BLYTHEVILLE, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	47	23	5 047	214 185	4 077	8 671	167 582	999 131	1 367 552	2 363 552	51 516
311	Food manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	4	3	728	19 726	601	1 119	13 198	62 655	118 346	182 488	D
3261	Plastics product manufacturing ..	-	3	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	2	2	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	11	6	817	32 263	597	1 184	20 023	81 764	74 769	158 455	2 840
3324	Boiler, tank, and shipping container manufacturing .....	5	2	2	e	D	D	D	D	D	D	D	D
33241	Power boiler and heat exchanger manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing ..	9	1	1	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	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	4	2	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	2	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
333991	Power-driven handtool manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>CAMDEN, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	42	13	2 210	76 764	1 804	3 468	57 819	223 241	282 910	481 509	15 259
321	Wood product manufacturing .....	1	12	3	346	10 063	302	686	8 620	18 010	49 748	66 308	612
3211	Sawmills and wood preservation ..	-	9	3	e	D	D	D	D	D	D	D	544
32111	Sawmills and wood preservation .....	-	9	3	e	D	D	D	D	D	D	D	544
321113	Sawmills .....	-	8	3	318	9 315	278	639	8 056	16 758	47 439	62 747	D
322	Paper manufacturing .....	8	5	3	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	8	5	3	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	8	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
332995	Other ordnance and accessories manufacturing ..	-	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>CAMDEN, AR MICROPOLITAN STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>EL DORADO, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	62	30	5 633	191 927	4 368	8 601	131 386	803 923	1 556 078	2 342 660	41 208
311	Food manufacturing .....	2	6	1	g	D	D	D	D	D	D	D	D
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
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	15	10	862	28 647	740	1 653	22 650	48 123	164 387	214 572	10 785
3211	Sawmills and wood preservation .....	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
32111	Sawmills and wood preservation .....	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
321113	Sawmills .....	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	5	4	797	45 319	564	930	30 863	134 454	157 893	292 740	D
3251	Basic chemical manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	4	682	22 901	501	998	12 607	47 968	66 673	115 169	5 376
3351	Electric lighting equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component 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	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>FAYETTEVILLE-SPRINGDALE-ROGERS, AR-MO METROPOLITAN STATISTICAL AREA</b>												
31-33	Manufacturing .....	1	433	138	30 924	884 064	25 329	50 198	638 276	3 322 005	2 725 238	6 066 984	145 548
311	Food manufacturing .....	1	54	34	13 716	309 043	12 291	22 959	250 909	1 619 554	1 294 668	2 927 294	49 340
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	7	6	1 839	48 756	1 599	3 135	37 304	330 591	237 966	568 919	D
31141	Frozen food manufacturing ....	—	2	2	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	5	4	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	—	5	4	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	4	3	3	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	4	3	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	22	17	10 343	214 570	9 471	17 244	181 411	1 150 903	714 742	1 878 762	31 569
31161	Animal slaughtering and processing .....	—	22	17	10 343	214 570	9 471	17 244	181 411	1 150 903	714 742	1 878 762	31 569
311615	Poultry processing .....	—	18	15	j	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	8	3	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	—	2	2	e	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	9	5	2	e	D	D	D	D	D	D	D	408
31191	Snack food manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	—	9	1	e	D	D	D	D	D	D	D	341
3149	Other textile product mills .....	—	7	1	e	D	D	D	D	D	D	D	D
31499	All other textile product mills .	—	6	1	e	D	D	D	D	D	D	D	339
314992	Tire cord and tire fabric mills .	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	4	41	15	1 025	24 099	881	1 697	18 278	40 732	51 346	91 015	3 817
3211	Sawmills and wood preservation .	4	17	5	297	7 307	268	486	6 141	10 198	23 342	32 716	2 051
32111	Sawmills and wood preservation .....	4	17	5	297	7 307	268	486	6 141	10 198	23 342	32 716	2 051
321113	Sawmills .....	4	17	5	297	7 307	268	486	6 141	10 198	23 342	32 716	2 051
3219	Other wood product manufacturing .....	4	22	9	f	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	—	10	6	343	6 914	304	632	5 257	12 704	11 861	24 607	1 156
321920	Wood container and pallet manufacturing .....	—	10	6	343	6 914	304	632	5 257	12 704	11 861	24 607	1 156
32199	All other wood product manufacturing .....	7	8	3	257	6 288	209	390	4 656	13 602	11 202	24 677	455
323	Printing and related support activities .....	3	45	6	650	21 903	483	811	13 306	59 893	40 374	101 787	2 417
3231	Printing and related support activities .....	3	45	6	650	21 903	483	811	13 306	59 893	40 374	101 787	2 417
32311	Printing .....	3	43	6	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	13	1	787	27 506	640	1 318	20 031	69 275	88 895	154 903	3 694
3256	Soap, cleaning compound, and toilet preparation manufacturing .	—	4	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	20	10	1 923	66 959	1 564	3 342	48 631	300 248	194 404	494 646	13 193
3261	Plastics product manufacturing ..	1	17	9	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	6	10	5	413	11 805	344	686	8 170	33 795	25 025	58 803	1 576
326199	All other plastics product manufacturing .....	6	9	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	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>FAYETTEVILLE-SPRINGDALE-ROGERS, AR-MO METROPOLITAN STATISTICAL AREA—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing . . .	—	3	1	f	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing . .	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing . . . . .	1	25	5	264	8 378	207	439	5 781	23 095	23 104	45 710	1 031
332	Fabricated metal product manufacturing . . . . .	1	75	21	3 581	122 854	2 910	5 993	88 119	334 827	251 561	582 634	11 258
3322	Cutlery and handtool manufacturing . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing . . . . .	3	16	5	985	36 974	634	1 225	19 761	121 017	55 993	175 296	4 970
33232	Ornamental and architectural metal products manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
332431	Metal can manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities . . . . .	—	6	1	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities . .	—	6	1	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing . . . . .	—	11	6	436	15 060	368	748	11 494	26 018	31 584	59 006	1 199
33291	Metal valve manufacturing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing . . . . .	2	33	14	1 962	73 252	1 222	2 429	40 959	197 099	262 295	464 623	7 252
3333	Commercial and service industry machinery manufacturing . . . . .	—	5	3	422	14 622	258	553	7 172	71 344	182 642	257 382	D
33331	Commercial and service industry machinery manufacturing . . . . .	—	5	3	422	14 622	258	553	7 172	71 344	182 642	257 382	D
333319	Other commercial and service industry machinery manufacturing . . . . .	—	5	3	422	14 622	258	553	7 172	71 344	182 642	257 382	D
3335	Metalworking machinery manufacturing . . . . .	9	10	4	878	37 413	603	1 301	23 347	73 689	46 702	122 510	D
33351	Metalworking machinery manufacturing . . . . .	9	10	4	878	37 413	603	1 301	23 347	73 689	46 702	122 510	D
333515	Cutting tool and machine tool accessory manufacturing . . . . .	9	3	3	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing . . . . .	2	7	3	287	9 900	193	257	6 047	27 604	9 681	37 224	1 104
33399	All other general purpose machinery manufacturing . . . . .	2	7	3	287	9 900	193	257	6 047	27 604	9 681	37 224	1 104
334	Computer and electronic product manufacturing . . . . .	—	7	3	f	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
334412	Bare printed circuit board manufacturing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.



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

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

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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>FAYETTEVILLE-SPRINGDALE-ROGERS, AR-MO METROPOLITAN STATISTICAL AREA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	-	9	3	1 255	37 879	997	2 214	29 745	182 819	71 726	257 172	6 379
3353	Electrical equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	12	7	2 530	94 787	1 802	4 323	62 210	230 833	189 827	417 530	28 045
3363	Motor vehicle parts manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	4	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	4	2	2	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	34	6	739	17 269	618	1 241	12 471	62 140	61 044	128 506	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	28	5	608	13 923	496	967	9 449	54 915	55 137	115 284	907
33711	Wood kitchen cabinet and countertop manufacturing ....	2	20	3	e	D	D	D	D	D	D	D	276
337110	Wood kitchen cabinet and countertop manufacturing ..	2	20	3	e	D	D	D	D	D	D	D	276
33712	Household and institutional furniture manufacturing .....	-	8	2	e	D	D	D	D	D	D	D	631
337121	Upholstered household furniture manufacturing ....	-	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	38	8	974	31 700	633	1 295	16 642	75 451	62 661	139 279	6 209
3391	Medical equipment and supplies manufacturing .....	7	18	2	372	14 607	225	451	7 130	43 152	22 998	66 099	1 655
33911	Medical equipment and supplies manufacturing .....	7	18	2	372	14 607	225	451	7 130	43 152	22 998	66 099	1 655
3399	Other miscellaneous manufacturing .....	1	20	6	602	17 093	408	844	9 512	32 299	39 663	73 180	4 554
33999	All other miscellaneous manufacturing .....	-	7	4	496	14 220	329	724	8 061	25 181	34 812	61 213	D
339999	All other miscellaneous manufacturing .....	-	6	4	e	D	D	D	D	D	D	D	D
<b>FORREST CITY, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	23	7	4 119	106 531	3 411	6 527	74 797	172 978	530 997	721 560	9 006
311	Food manufacturing .....	-	3	2	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
311612	Meat processed from carcasses .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	E <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>FORREST CITY, AR MICROPOLITAN STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>FORT SMITH, AR-OK METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	350	119	27 540	806 958	22 987	44 975	610 877	3 072 038	3 296 747	6 394 911	136 782
311	Food manufacturing .....	2	40	21	8 784	203 388	7 799	15 336	165 103	782 102	1 195 251	1 989 204	26 327
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	4	3	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	—	3	2	e	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	1	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	15	10	6 798	140 778	6 165	11 938	117 514	258 528	715 893	986 941	17 935
31161	Animal slaughtering and processing .....	4	15	10	6 798	140 778	6 165	11 938	117 514	258 528	715 893	986 941	17 935
311615	Poultry processing .....	4	9	9	6 759	139 854	6 129	11 868	116 727	256 763	710 110	979 420	D
3118	Bakeries and tortilla manufacturing .....	—	6	2	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	3	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
311911	Roasted nuts and peanut butter manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	7	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	19	6	393	10 226	282	607	6 749	22 440	34 912	54 725	1 494
322	Paper manufacturing .....	—	14	10	1 222	43 844	1 019	2 168	32 986	142 591	198 985	334 671	D
3222	Converted paper product manufacturing .....	—	14	10	1 222	43 844	1 019	2 168	32 986	142 591	198 985	334 671	D
32221	Paperboard container manufacturing .....	—	13	9	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	—	9	6	f	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	34	4	624	22 411	441	779	14 847	41 633	26 541	68 337	2 557
3231	Printing and related support activities .....	2	34	4	624	22 411	441	779	14 847	41 633	26 541	68 337	2 557
32311	Printing .....	2	34	4	624	22 411	441	779	14 847	41 633	26 541	68 337	2 557
323112	Commercial flexographic printing .....	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	7	2	e	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
32592	Explosives manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
325920	Explosives manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	21	14	1 792	43 077	1 526	3 060	31 466	130 278	187 031	322 640	12 396
3261	Plastics product manufacturing .....	—	20	14	g	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	3	4	3	257	4 861	231	255	3 171	11 749	19 587	31 330	D
326150	Urethane and other foam product (except polystyrene) manufacturing .....	3	4	3	257	4 861	231	255	3 171	11 749	19 587	31 330	D
32619	Other plastics product manufacturing .....	—	10	8	1 246	29 939	1 032	2 206	21 477	99 074	126 977	226 156	11 579
326199	All other plastics product manufacturing .....	—	10	8	1 246	29 939	1 032	2 206	21 477	99 074	126 977	226 156	11 579

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>FORT SMITH, AR-OK METROPOLITAN STATISTICAL AREA—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	1	27	7	425	11 866	357	730	9 572	42 529	22 685	64 093	2 495
331	Primary metal manufacturing .....	-	7	4	925	45 885	655	1 433	30 598	168 628	204 783	373 767	12 302
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	2	1	e	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	-	2	1	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing .....	-	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	62	13	1 583	36 578	1 276	1 720	23 859	85 625	48 554	137 116	4 497
3325	Hardware manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing .....	-	3	3	481	10 836	312	356	6 155	25 770	14 770	40 362	D
33261	Spring and wire product manufacturing .....	-	3	3	481	10 836	312	356	6 155	25 770	14 770	40 362	D
332618	Other fabricated wire product manufacturing .....	-	3	3	481	10 836	312	356	6 155	25 770	14 770	40 362	D
333	Machinery manufacturing .....	-	21	5	2 486	93 282	1 868	4 040	71 657	665 336	284 564	953 194	8 016
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
335	Electrical equipment, appliance, and component manufacturing .....	-	12	9	5 554	197 531	4 915	10 117	160 673	685 600	795 622	1 483 145	33 935
3352	Household appliance manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
33591	Battery manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	10	3	495	17 233	397	482	12 144	42 070	68 212	109 890	701
3363	Motor vehicle parts manufacturing .....	-	6	2	e	D	D	D	D	D	D	D	478
337	Furniture and related product manufacturing .....	-	30	13	1 809	43 939	1 481	2 836	31 417	87 526	107 558	194 672	3 831
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	24	10	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	21	10	1 387	35 231	1 120	2 022	25 089	68 660	85 005	151 108	2 967
337122	Nonupholstered wood household furniture manufacturing .....	-	10	5	1 065	26 430	855	1 538	18 687	51 694	66 665	115 630	2 297

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>FORT SMITH, AR-OK METROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	—	5	2	383	7 835	327	737	5 745	17 222	20 220	39 582	D
33721	Office furniture (including fixtures) manufacturing .....	—	5	2	383	7 835	327	737	5 745	17 222	20 220	39 582	D
337211	Wood office furniture manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	27	3	559	11 757	366	773	5 944	37 840	19 784	58 333	1 706
3399	Other miscellaneous manufacturing .....	2	21	3	542	11 188	353	757	5 693	36 693	19 363	56 798	1 677
33992	Sporting and athletic goods manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
<b>HARRISON, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	77	17	2 463	73 676	2 060	4 137	51 513	182 491	227 061	410 857	4 776
321	Wood product manufacturing .....	1	16	3	308	8 605	274	577	6 804	14 618	25 686	40 504	D
3219	Other wood product manufacturing .....	—	7	3	281	7 698	251	529	6 109	12 679	22 059	34 938	D
32191	Millwork .....	—	6	2	e	D	D	D	D	D	D	D	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
331521	Aluminum die-casting foundries .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	10	3	297	7 687	254	585	5 597	18 543	10 439	29 056	195
337	Furniture and related product manufacturing .....	—	8	1	e	D	D	D	D	D	D	D	232
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	7	1	e	D	D	D	D	D	D	D	232
339	Miscellaneous manufacturing .....	9	11	3	481	17 887	346	718	8 822	38 445	19 307	57 639	D
3399	Other miscellaneous manufacturing .....	9	7	3	e	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
339942	Lead pencil and art good manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
<b>HOPE, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	37	20	4 832	139 167	3 872	7 679	93 121	461 410	535 574	992 374	18 165
311	Food manufacturing .....	—	6	3	g	D	D	D	D	D	D	D	7 532
3116	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
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 .....	—	2	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	8	6	472	17 289	394	845	13 787	62 414	103 988	163 756	3 714
326	Plastics and rubber products manufacturing .....	—	4	3	709	20 742	564	1 034	14 230	130 325	166 431	293 437	3 620
3261	Plastics product manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	—	2	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	E <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>HOPE, AR MICROPOLITAN STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	e	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
336311	Carburetor, piston, piston ring, and valve manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>HOT SPRINGS, AR METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	124	29	4 034	127 824	2 887	5 604	82 323	302 916	423 470	717 473	25 667
321	Wood product manufacturing .....	-	14	4	474	16 195	445	941	14 925	19 342	56 731	75 333	1 637
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	9	5	1 098	22 067	758	1 274	13 074	61 660	39 775	99 740	2 306
3261	Plastics product manufacturing ..	-	7	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	2	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	4	4	4	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	5	3	3	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	5	3	3	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	7	2	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
33321	Sawmill and woodworking machinery manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
333210	Sawmill and woodworking machinery manufacturing ..	-	3	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	5	939	38 650	613	1 357	24 352	90 895	85 968	175 151	9 863
3364	Aerospace product and parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment 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>JONESBORO, AR METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	147	57	8 614	250 907	6 643	12 841	168 672	751 674	993 496	1 743 580	73 831
311	Food manufacturing .....	1	13	5	911	26 314	713	1 441	17 274	107 574	324 759	432 116	8 253
3112	Grain and oilseed milling .....	—	6	3	e	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
311212	Rice milling .....	—	6	3	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	9	3	263	7 013	222	473	5 250	16 892	62 559	79 592	235
323	Printing and related support activities .....	—	12	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	—	12	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	12	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	6	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	6	4	324	10 993	231	508	6 393	56 124	42 768	98 644	386
3261	Plastics product manufacturing ..	—	6	4	324	10 993	231	508	6 393	56 124	42 768	98 644	386
32619	Other plastics product manufacturing .....	—	6	4	324	10 993	231	508	6 393	56 124	42 768	98 644	386
326199	All other plastics product manufacturing .....	—	6	4	324	10 993	231	508	6 393	56 124	42 768	98 644	386
327	Nonmetallic mineral product manufacturing .....	7	15	6	464	14 861	344	691	10 754	36 895	22 201	59 929	6 186
3272	Glass and glass product manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	22	7	717	22 431	577	1 203	15 193	69 120	54 635	123 563	982
3324	Boiler, tank, and shipping container manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	17	5	1 246	38 840	835	1 553	22 949	79 623	62 946	142 415	1 692
3339	Other general purpose machinery manufacturing .....	—	9	3	1 080	33 493	733	1 363	20 050	64 328	58 051	122 270	D
33392	Material handling equipment manufacturing .....	—	6	3	1 071	33 125	728	1 353	19 893	63 582	57 478	120 951	D
333922	Conveyor and conveying equipment manufacturing ..	—	6	3	1 071	33 125	728	1 353	19 893	63 582	57 478	120 951	D
335	Electrical equipment, appliance, and component manufacturing .....	3	8	6	679	23 795	548	1 099	17 151	57 811	79 543	133 223	1 582
3359	Other electrical equipment and component manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	9	1	1	e	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	4	4	4	1 314	34 387	1 077	2 155	24 147	96 219	140 801	238 101	43 059
3362	Motor vehicle body and trailer manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
336212	Truck trailer manufacturing ..	9	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	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>JONESBORO, AR METROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing .....	2	3	3	f	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
33635	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	11	3	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	16	5	601	17 716	434	882	10 202	54 674	64 429	117 434	2 237
3399	Other miscellaneous manufacturing .....	2	10	5	581	16 939	421	856	9 811	52 373	63 606	114 324	D
33999	All other miscellaneous manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
339992	Musical instrument manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
<b>MAGNOLIA, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	35	17	2 998	103 049	2 230	4 682	67 394	352 111	307 260	646 126	21 116
321	Wood product manufacturing .....	—	9	4	623	19 682	528	1 185	15 983	36 631	73 260	110 779	4 738
3212	Veneer, plywood, and engineered wood product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	8	4	886	26 860	709	1 341	18 531	50 262	59 956	112 203	774
3323	Architectural and structural metals manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	471
33232	Ornamental and architectural metal products manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	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>MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	1 104	1393	146 851	1 763 622	132 778	164 797	1 019 082	16 663 121	18 162 424	14 764 059	1569 853
311	Food manufacturing .....	-	69	32	5 300	211 718	3 534	6 635	126 912	1 378 533	1 171 161	2 573 504	55 250
3112	Grain and oilseed milling .....	-	9	7	g	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
311221	Wet corn milling .....	-	1	1	e	D	D	D	D	D	D	D	D
311222	Soybean processing .....	-	1	1	e	D	D	D	D	D	D	D	D
311225	Fats and oils refining and blending .....	-	3	3	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	8	5	700	26 042	590	1 099	19 681	304 980	116 390	421 427	3 914
31141	Frozen food manufacturing ....	-	4	3	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	4	2	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	7	8	4	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	16	4	1 180	41 976	394	633	12 689	107 527	30 777	138 411	1 740
31181	Bread and bakery product manufacturing .....	-	14	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	4	3	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	10	3	379	13 783	268	369	6 899	66 331	51 241	117 332	D
312	Beverage and tobacco product manufacturing .....	-	11	6	1 127	51 514	864	1 812	39 107	410 891	423 471	829 980	D
3121	Beverage manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	8	4	e	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	4	3	e	D	D	D	D	D	D	D	D
31212	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	23	7	887	20 866	764	1 647	16 279	42 143	71 667	112 537	9 663
3141	Textile furnishings mills .....	-	10	3	619	14 229	543	1 188	11 622	17 098	47 536	63 617	D
31412	Curtain and linen mills .....	-	10	3	619	14 229	543	1 188	11 622	17 098	47 536	63 617	D
314129	Other household textile product mills .....	-	3	2	f	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	-	13	4	268	6 637	221	459	4 657	25 045	24 131	48 920	D
315	Apparel manufacturing .....	3	15	4	f	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	3	11	4	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	54	23	1 509	38 107	1 170	2 194	22 878	73 503	96 932	172 859	D
3219	Other wood product manufacturing .....	1	46	19	1 328	32 537	1 015	1 891	18 633	61 454	76 612	139 669	D
32191	Millwork .....	2	17	6	624	13 063	525	838	8 444	17 377	37 205	54 542	D
321918	Other millwork (including flooring) .....	-	12	4	502	9 715	445	677	6 600	11 857	28 333	40 134	D
32192	Wood container and pallet manufacturing .....	1	17	8	431	11 518	308	665	6 621	28 764	21 518	50 566	D
321920	Wood container and pallet manufacturing .....	1	17	8	431	11 518	308	665	6 621	28 764	21 518	50 566	D
32199	All other wood product manufacturing .....	-	12	5	273	7 956	182	388	3 568	15 313	17 889	34 561	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>MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA—Con.</b>													
322	Paper manufacturing .....	—	30	21	2 573	107 850	1 797	3 718	57 990	225 438	329 572	554 938	18 334
3221	Pulp, paper, and paperboard mills .....	1	2	2	f	D	D	D	D	D	D	D	D
32211	Pulp mills .....	—	1	1	e	D	D	D	D	D	D	D	D
322110	Pulp mills .....	—	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	28	19	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	17	11	964	38 670	733	1 623	23 708	84 463	152 756	236 305	D
322211	Corrugated and solid fiber box manufacturing .....	—	13	9	769	30 137	591	1 323	18 392	69 365	138 467	206 906	D
32222	Paper bag and coated and treated paper manufacturing ..	—	5	4	876	31 571	680	1 337	19 853	79 740	98 650	177 662	D
322222	Coated and laminated paper manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	164	35	6 009	214 810	4 421	8 474	136 625	478 598	358 194	834 707	29 198
3231	Printing and related support activities .....	—	164	35	6 009	214 810	4 421	8 474	136 625	478 598	358 194	834 707	29 198
32311	Printing .....	—	145	31	5 809	205 704	4 282	8 187	131 790	461 753	354 849	814 369	28 843
323110	Commercial lithographic printing .....	—	69	22	4 670	161 474	3 476	6 520	103 111	321 957	224 710	544 695	23 140
323111	Commercial gravure printing ..	—	1	1	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing .....	—	14	4	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	—	14	4	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	—	1	1	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	84	42	4 810	220 529	3 001	5 866	112 622	916 810	1 133 203	2 057 489	D
3251	Basic chemical manufacturing ...	—	17	7	1 494	81 158	807	1 666	38 754	330 178	465 646	800 015	D
32518	Other basic inorganic chemical manufacturing .....	—	4	3	674	45 533	246	468	13 693	207 905	145 810	352 959	D
325188	All other basic inorganic chemical manufacturing ....	—	4	3	674	45 533	246	468	13 693	207 905	145 810	352 959	D
32519	Other basic organic chemical manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	—	4	4	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing .....	1	7	5	459	15 357	359	747	10 315	38 762	87 735	126 764	D
32532	Pesticide and other agricultural chemical manufacturing .....	3	5	4	e	D	D	D	D	D	D	D	735
325320	Pesticide and other agricultural chemical manufacturing .....	3	5	4	e	D	D	D	D	D	D	D	735
3254	Pharmaceutical and medicine manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	5	19	7	899	37 405	465	847	12 716	136 606	232 183	368 391	D
32551	Paint and coating manufacturing .....	6	13	4	775	30 451	414	734	10 704	112 610	205 429	317 578	D
325510	Paint and coating manufacturing .....	6	13	4	775	30 451	414	734	10 704	112 610	205 429	317 578	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	4	19	10	909	40 726	582	943	19 824	171 215	137 450	308 443	D
32561	Soap and cleaning compound manufacturing .....	5	13	5	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing .....	7	6	3	413	20 988	225	426	9 112	92 006	58 521	151 179	D
32562	Toilet preparation manufacturing .....	2	6	5	e	D	D	D	D	D	D	D	998
325620	Toilet preparation manufacturing .....	2	6	5	e	D	D	D	D	D	D	D	998
3259	Other chemical product and preparation manufacturing .....	—	14	7	440	19 399	367	753	15 667	86 591	104 538	191 856	5 724
32599	All other chemical product and preparation manufacturing ...	—	10	5	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation 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.**

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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>MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA—Con.</b>													
326	Plastics and rubber products manufacturing .....	1	43	29	2 657	94 830	1 903	4 007	56 187	371 906	348 824	727 866	12 866
3261	Plastics product manufacturing ..	1	36	28	2 556	91 890	1 843	3 903	54 991	366 020	340 697	714 336	12 819
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	1	5	5	539	25 345	346	755	11 670	134 191	102 904	245 641	2 508
32616	Plastics bottle manufacturing ..	—	5	5	294	9 489	269	572	7 958	39 235	30 753	69 236	1 915
326160	Plastics bottle manufacturing .....	—	5	5	294	9 489	269	572	7 958	39 235	30 753	69 236	1 915
32619	Other plastics product manufacturing .....	1	17	13	1 288	43 543	925	1 949	27 380	146 233	168 776	315 162	5 786
326199	All other plastics product manufacturing .....	1	14	12	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	3	73	25	1 593	51 981	1 288	2 489	37 805	142 434	112 747	254 526	13 496
3271	Clay product and refractory manufacturing .....	4	7	5	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	3	41	12	771	23 388	609	1 086	16 980	68 309	54 168	121 944	8 470
32732	Ready-mix concrete manufacturing .....	4	29	9	514	15 931	429	745	12 349	46 856	44 078	91 268	6 546
327320	Ready-mix concrete manufacturing .....	4	29	9	514	15 931	429	745	12 349	46 856	44 078	91 268	6 546
3279	Other nonmetallic mineral product manufacturing .....	1	20	7	419	16 097	358	734	11 960	53 295	34 811	88 023	2 264
32799	All other nonmetallic mineral product manufacturing .....	1	20	7	419	16 097	358	734	11 960	53 295	34 811	88 023	2 264
331	Primary metal manufacturing .....	1	17	7	1 100	35 565	943	1 859	26 257	105 662	129 925	236 068	D
3312	Steel product manufacturing from purchased steel .....	2	6	4	661	22 722	583	1 195	17 576	69 913	77 635	147 183	2 919
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	3	5	3	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	3	2	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ..	—	3	2	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	189	68	5 259	194 070	3 893	7 956	122 645	498 299	467 130	953 277	71 203
3321	Forging and stamping.....	—	8	3	287	11 578	242	398	8 990	11 281	60 675	71 306	D
33211	Forging and stamping.....	—	8	3	287	11 578	242	398	8 990	11 281	60 675	71 306	D
3323	Architectural and structural metals manufacturing .....	1	69	34	2 619	94 619	1 834	3 842	52 732	219 838	193 624	407 299	30 417
33231	Plate work and fabricated structural product manufacturing .....	1	24	14	779	28 753	542	1 165	16 141	62 989	76 021	136 411	1 972
332312	Fabricated structural metal manufacturing .....	2	19	11	624	23 037	422	926	12 477	48 332	53 317	98 985	D
33232	Ornamental and architectural metal products manufacturing .....	1	45	20	1 840	65 866	1 292	2 677	36 591	156 849	117 603	270 888	28 445
332321	Metal window and door manufacturing .....	2	13	7	1 060	36 372	757	1 559	20 957	55 374	54 673	108 617	D
332322	Sheet metal work manufacturing .....	—	21	10	507	16 686	363	745	9 430	49 150	36 856	82 161	22 281
332323	Ornamental and architectural metal work manufacturing ..	—	11	3	273	12 808	172	373	6 204	52 325	26 074	80 110	D
3324	Boiler, tank, and shipping container manufacturing .....	—	13	8	650	24 255	504	1 044	16 837	91 298	124 049	215 886	2 806
33242	Metal tank (heavy gauge) manufacturing .....	—	6	5	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing .....	—	6	5	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	5	3	297	13 381	258	590	10 668	63 074	111 388	174 047	2 229
332431	Metal can manufacturing ....	—	3	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>MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	53	9	700	31 426	509	1 026	21 094	75 674	31 170	101 007	4 187
33271	Machine shops .....	1	47	7	621	28 083	453	903	19 076	70 430	29 740	94 190	3 223
332710	Machine shops .....	1	47	7	621	28 083	453	903	19 076	70 430	29 740	94 190	3 223
3329	Other fabricated metal product manufacturing .....	1	17	8	629	21 511	534	1 096	16 236	72 883	36 292	108 963	2 285
33291	Metal valve manufacturing ....	1	3	3	332	9 839	294	613	8 280	53 987	17 511	70 926	D
33299	All other fabricated metal product manufacturing .....	3	14	5	297	11 672	240	483	7 956	18 896	18 781	38 037	D
332999	All other miscellaneous fabricated metal product manufacturing .....	3	11	5	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	70	26	4 394	150 651	3 395	6 805	100 848	564 965	628 397	1 196 040	13 451
3333	Commercial and service industry machinery manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	665
33331	Commercial and service industry machinery manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	665
333313	Office machinery manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	5 391
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	5 391
333411	Air purification equipment manufacturing .....	4	8	5	e	D	D	D	D	D	D	D	1 277
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	6	5	g	D	D	D	D	D	D	D	4 114
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	699
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	5	2	e	D	D	D	D	D	D	D	699
333618	Other engine equipment manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	20	10	960	43 512	590	1 243	21 370	88 767	144 997	233 631	6 292
33392	Material handling equipment manufacturing .....	—	11	7	764	35 412	470	988	17 564	65 817	126 465	189 235	5 641
333922	Conveyor and conveying equipment manufacturing ..	—	9	5	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	22	11	1 842	55 900	1 380	2 558	35 695	158 457	257 408	391 454	8 802
3351	Electric lighting equipment manufacturing .....	6	5	4	658	19 084	490	936	12 570	53 538	66 102	120 054	D
33512	Lighting fixture manufacturing ..	6	5	4	658	19 084	490	936	12 570	53 538	66 102	120 054	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	6	4	3	f	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing.	—	2	2	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	13	4	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	2	13	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	31	11	796	26 671	509	1 094	13 384	70 315	89 370	160 748	6 432
3363	Motor vehicle parts manufacturing .....	—	16	6	390	13 635	240	495	5 793	48 436	50 673	99 517	4 270

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>MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing .....	2	67	17	1 431	37 417	1 165	2 143	24 825	79 138	67 164	146 134	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	46	11	1 054	26 644	875	1 558	17 964	56 711	48 023	104 873	D
33711	Wood kitchen cabinet and countertop manufacturing ....	4	31	5	275	6 804	222	406	4 707	12 375	9 820	22 236	D
337110	Wood kitchen cabinet and countertop manufacturing ..	4	31	5	275	6 804	222	406	4 707	12 375	9 820	22 236	D
33712	Household and institutional furniture manufacturing .....	1	15	6	779	19 840	653	1 152	13 257	44 336	38 203	82 637	D
337124	Metal household furniture manufacturing .....	-	4	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	103	21	4 103	186 108	1 689	3 382	44 653	713 186	245 402	921 307	70 178
3391	Medical equipment and supplies manufacturing .....	-	49	11	3 337	165 362	1 084	2 298	31 253	666 520	181 443	810 641	67 807
33911	Medical equipment and supplies manufacturing .....	-	49	11	3 337	165 362	1 084	2 298	31 253	666 520	181 443	810 641	67 807
339113	Surgical appliance and supplies manufacturing ....	-	13	5	2 964	151 274	861	1 900	25 043	636 604	170 567	769 753	66 471
3399	Other miscellaneous manufacturing .....	4	54	10	766	20 746	605	1 084	13 400	46 666	63 959	110 666	2 371
33995	Sign manufacturing.....	3	30	5	269	8 703	198	383	5 400	18 056	13 545	31 699	307
339950	Sign manufacturing.....	3	30	5	269	8 703	198	383	5 400	18 056	13 545	31 699	307
<b>MOUNTAIN HOME, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	53	13	3 364	87 479	2 550	5 126	53 638	295 157	166 909	464 077	20 813
326	Plastics and rubber products manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	1	1	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
336	Transportation equipment manufacturing .....	-	5	3	313	7 217	234	411	3 933	14 014	22 807	36 784	289
<b>PARAGOULD, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	53	20	4 849	133 277	4 203	8 015	105 362	400 837	404 316	802 574	17 852
326	Plastics and rubber products manufacturing .....	-	5	4	745	19 315	656	1 490	15 345	60 651	70 809	133 253	D
3261	Plastics product manufacturing ..	-	3	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	2	1	e	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

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>PARAGOULD, AR MICROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing .....	—	9	6	1 648	45 087	1 503	2 707	37 389	142 937	156 685	294 718	5 673
3362	Motor vehicle body and trailer manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
336212	Truck trailer manufacturing ..	—	2	2	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>RUSSELLVILLE, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	98	38	8 017	195 063	6 260	12 114	144 802	803 018	892 755	1 699 310	39 707
311	Food manufacturing .....	—	15	11	5 320	101 750	4 219	8 028	82 614	550 853	629 208	1 182 043	21 879
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	6	5	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	6	5	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	3	3	h	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	2	2	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
321	Wood product manufacturing .....	—	12	4	441	13 937	390	822	11 070	44 718	40 817	87 197	2 348
3211	Sawmills and wood preservation .	—	7	4	402	13 105	354	745	10 350	43 187	39 605	84 569	2 326
32111	Sawmills and wood preservation .....	—	7	4	402	13 105	354	745	10 350	43 187	39 605	84 569	2 326
321113	Sawmills .....	—	6	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	4	5	4	756	27 611	597	1 177	20 779	81 703	74 868	150 838	D
3262	Rubber product manufacturing ...	6	3	2	f	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	6	2	2	f	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	6	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	21	5	264	8 528	181	350	5 391	18 656	22 169	41 010	559
333	Machinery manufacturing .....	1	8	4	454	15 583	305	556	8 016	31 030	29 220	60 811	950

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>TEXARKANA, TX-TEXARKANA, AR METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	95	29	5 902	255 903	4 494	8 650	185 461	838 509	756 682	1 580 621	35 143
321	Wood product manufacturing .....	—	8	5	477	14 444	410	845	11 065	33 385	59 893	94 039	3 164
3211	Sawmills and wood preservation ..	—	4	2	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	—	4	2	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	3	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
32213	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	9	5	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	—	1	1	g	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	—	1	1	g	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 .....	—	1	1	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	1	1	e	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	19	4	890	31 612	608	959	15 305	71 821	41 035	113 751	1 768
3329	Other fabricated metal product manufacturing .....	2	4	3	791	28 101	535	817	13 070	64 705	35 648	101 249	1 473
33299	All other fabricated metal product manufacturing .....	2	4	3	791	28 101	535	817	13 070	64 705	35 648	101 249	1 473
332993	Ammunition (except small arms) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing .....	2	3	2	e	D	D	D	D	D	D	D	1 473
336	Transportation equipment manufacturing .....	2	5	3	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	2	3	3	256	8 642	198	418	5 796	13 062	26 812	40 213	177
33621	Motor vehicle body and trailer manufacturing .....	2	3	3	256	8 642	198	418	5 796	13 062	26 812	40 213	177
336212	Truck trailer manufacturing ..	2	3	3	256	8 642	198	418	5 796	13 062	26 812	40 213	177
<b>WEST HELENA, AR MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	14	8	583	19 920	357	695	9 505	81 238	77 068	156 649	2 135

<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>ARKANSAS</b>													
31-33	Manufacturing .....	-	29	16	3 177	93 425	2 487	4 747	70 006	223 007	884 444	1 050 441	17 180
311	Food manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	-	5	5	g	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
311212	Rice milling .....	-	4	4	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	7	2	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	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	g	D	D	D	D	D	D	D	D
<b>ASHLEY</b>													
31-33	Manufacturing .....	-	27	12	h	D	D	D	D	D	D	D	38 921
321	Wood product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>BAXTER</b>													
31-33	Manufacturing .....	-	53	13	3 364	87 479	2 550	5 126	53 638	295 157	166 909	464 077	20 813
334	Computer and electronic product manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	1	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
<b>BENTON</b>													
31-33	Manufacturing .....	1	164	58	11 325	352 086	9 176	19 141	258 571	1 467 484	1 141 169	2 615 526	66 102
311	Food manufacturing .....	2	17	12	3 684	90 928	3 263	6 608	75 895	543 928	429 233	973 181	12 564
3116	Animal slaughtering and processing .....	1	9	7	3 050	72 966	2 727	5 441	61 983	453 632	260 786	714 433	6 479
31161	Animal slaughtering and processing .....	1	9	7	3 050	72 966	2 727	5 441	61 983	453 632	260 786	714 433	6 479
311615	Poultry processing .....	1	9	7	3 050	72 966	2 727	5 441	61 983	453 632	260 786	714 433	6 479
326	Plastics and rubber products manufacturing .....	-	15	9	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	13	8	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ..	-	2	1	f	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting 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]

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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>BENTON—Con.</b>													
333	Machinery manufacturing .....	3	14	6	1 144	46 973	840	1 729	31 287	111 073	196 599	307 455	3 883
3335	Metalworking machinery manufacturing .....	9	7	3	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	9	7	3	f	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing...	9	2	2	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
3353	Electrical equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	22	6	681	15 826	573	1 161	11 440	59 427	59 140	123 843	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	18	5	f	D	D	D	D	D	D	D	D
<b>BOONE</b>													
31-33	Manufacturing .....	1	62	16	2 392	71 350	2 000	4 010	49 729	177 463	218 937	397 443	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
331521	Aluminum die-casting foundries.....	—	1	1	f	D	D	D	D	D	D	D	D
<b>BRADLEY</b>													
31-33	Manufacturing .....	—	8	5	1 003	28 970	880	1 874	22 709	42 649	88 217	135 557	D
321	Wood product manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
<b>CARROLL</b>													
31-33	Manufacturing .....	4	32	7	h	D	D	D	D	D	D	D	8 241
311	Food manufacturing .....	4	5	3	h	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	4	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	4	2	2	h	D	D	D	D	D	D	D	D
<b>CHICOT</b>													
31-33	Manufacturing .....	7	11	5	686	11 435	613	1 172	8 882	65 434	49 669	116 329	D
<b>CLARK</b>													
31-33	Manufacturing .....	—	30	12	2 362	69 820	2 048	4 181	51 900	135 037	243 457	386 224	11 467
311	Food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	2	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
321	Wood product manufacturing .....	—	9	4	843	29 851	753	1 675	23 867	53 304	111 333	165 631	2 435
3212	Veneer, plywood, and engineered wood product manufacturing ....	—	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood 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]

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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>CLARK—Con.</b>													
333	Machinery manufacturing .....	—	2	1	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>CLAY</b>													
31-33	Manufacturing .....	3	23	11	2 024	38 405	1 781	3 256	31 255	87 237	96 464	187 463	5 095
337	Furniture and related product manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>CLEBURNE</b>													
31-33	Manufacturing .....	—	43	10	1 489	42 139	1 010	2 037	22 787	102 545	98 248	201 814	3 542
333	Machinery manufacturing .....	—	6	3	538	16 043	399	835	8 727	42 844	60 886	103 441	1 883
339	Miscellaneous manufacturing .....	—	7	2	f	D	D	D	D	D	D	D	D
<b>COLUMBIA</b>													
31-33	Manufacturing .....	—	35	17	2 998	103 049	2 230	4 682	67 394	352 111	307 260	646 126	21 116
321	Wood product manufacturing .....	—	9	4	623	19 682	528	1 185	15 983	36 631	73 260	110 779	4 738
325	Chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	8	4	886	26 860	709	1 341	18 531	50 262	59 956	112 203	774
3323	Architectural and structural metals manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	471
33232	Ornamental and architectural metal products manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>CONWAY</b>													
31-33	Manufacturing .....	—	27	9	1 075	39 040	826	1 682	26 398	152 459	169 547	318 145	D
<b>CRAIGHEAD</b>													
31-33	Manufacturing .....	2	123	47	6 931	207 845	5 376	10 172	138 069	638 672	790 336	1 426 308	D
311	Food manufacturing .....	1	9	4	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	11	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	—	11	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	11	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	5	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	19	6	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	14	4	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	3	7	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	5	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.**

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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>CRAWFORD</b>													
31-33	Manufacturing .....	-	58	20	3 325	86 465	2 853	6 004	69 343	301 493	366 008	673 827	9 549
311	Food manufacturing .....	-	13	7	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>CRITTENDEN</b>													
31-33	Manufacturing .....	1	'50	'19	'1 670	'58 014	'1 324	'2 675	'41 460	'149 883	'231 892	'391 793	'19 890
<b>CROSS</b>													
31-33	Manufacturing .....	-	17	6	1 319	31 615	1 202	2 487	26 352	84 869	146 950	221 984	7 396
331	Primary metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	-	2	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying .....	-	2	2	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>DALLAS</b>													
31-33	Manufacturing .....	3	14	6	737	22 809	648	1 474	19 346	42 148	75 986	117 928	1 335
321	Wood product manufacturing .....	3	7	5	564	19 041	511	1 176	16 705	35 806	69 812	105 522	1 155
<b>DESHA</b>													
31-33	Manufacturing .....	-	18	10	1 116	43 104	880	1 758	29 798	147 675	177 017	317 586	3 007
<b>DREW</b>													
31-33	Manufacturing .....	5	30	14	1 312	34 751	1 108	2 105	25 369	75 342	100 280	173 253	2 811
<b>FAULKNER</b>													
31-33	Manufacturing .....	-	92	23	6 676	192 173	5 315	9 017	131 783	743 340	574 191	1 317 090	35 599
322	Paper manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	10	3	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	8	2	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>FRANKLIN</b>													
31-33	Manufacturing .....	1	21	5	1 047	24 039	907	1 841	18 600	68 620	119 746	185 642	8 566

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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>GARLAND</b>													
31-33	Manufacturing .....	1	124	29	4 034	127 824	2 887	5 604	82 323	302 916	423 470	717 473	25 667
326	Plastics and rubber products manufacturing .....	-	9	5	1 098	22 067	758	1 274	13 074	61 660	39 775	99 740	2 306
3261	Plastics product manufacturing ..	-	7	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	5	5	939	38 650	613	1 357	24 352	90 895	85 968	175 151	D
3364	Aerospace product and parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>GRANT</b>													
31-33	Manufacturing .....	-	18	7	g	D	D	D	D	D	D	D	D
<b>GREENE</b>													
31-33	Manufacturing .....	-	53	20	4 849	133 277	4 203	8 015	105 362	400 837	404 316	802 574	17 852
326	Plastics and rubber products manufacturing .....	-	5	4	745	19 315	656	1 490	15 345	60 651	70 809	133 253	D
3261	Plastics product manufacturing ..	-	3	2	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
336	Transportation equipment manufacturing .....	-	9	6	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>HEMPSTEAD</b>													
31-33	Manufacturing .....	-	32	18	h	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
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
311812	Commercial bakeries .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

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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>HOT SPRING</b>													
31-33	Manufacturing .....	2	40	15	1 370	43 311	1 097	2 260	31 906	153 116	166 369	327 713	9 042
<b>HOWARD</b>													
31-33	Manufacturing .....	-	27	14	4 421	102 474	4 070	7 720	84 830	399 817	478 046	873 401	40 879
311	Food manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
<b>INDEPENDENCE</b>													
31-33	Manufacturing .....	-	53	17	4 751	135 878	3 994	8 520	98 882	454 001	506 881	959 341	32 441
311	Food manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	2	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	11	1	f	D	D	D	D	D	D	D	1 170
3329	Other fabricated metal product manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>JACKSON</b>													
31-33	Manufacturing .....	-	24	6	874	28 305	745	1 484	19 936	103 020	99 935	204 115	11 461
<b>JEFFERSON</b>													
31-33	Manufacturing .....	-	75	34	i	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	7	6	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
322	Paper manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	g	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
335311	Power, distribution, and specialty transformer manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D

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<b>JOHNSON</b>													
31-33	Manufacturing .....	-	33	13	3 020	70 652	2 640	5 082	55 947	255 007	162 129	416 726	8 755
311	Food manufacturing .....	-	4	3	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
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31511	Hosiery and sock mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LAWRENCE</b>													
31-33	Manufacturing .....	1	25	7	973	23 838	775	1 332	14 364	64 224	114 972	176 330	1 481
333	Machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
333991	Power-driven handtool manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LITTLE RIVER</b>													
31-33	Manufacturing .....	-	11	3	g	D	D	D	D	D	D	D	28 601
322	Paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>LOGAN</b>													
31-33	Manufacturing .....	-	25	9	2 124	49 563	1 471	3 276	35 430	144 798	340 763	485 629	16 994
311	Food manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	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
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LONOKE</b>													
31-33	Manufacturing .....	-	41	12	1 591	49 001	1 264	2 734	33 526	159 648	113 826	264 035	D
332	Fabricated metal product manufacturing .....	-	10	6	1 099	36 045	875	1 948	24 704	130 676	81 646	204 831	D
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
<b>MADISON</b>													
31-33	Manufacturing .....	-	24	7	1 394	33 865	1 148	1 966	24 995	30 504	159 812	185 465	5 292
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

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**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>MARION</b>													
31-33	Manufacturing .....	-	21	9	1 666	38 934	1 381	2 733	27 296	80 590	101 950	183 272	2 561
336	Transportation equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	2	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	2	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>MILLER</b>													
31-33	Manufacturing .....	-	25	7	2 638	123 624	2 031	3 832	98 378	372 848	225 147	602 107	9 338
326	Plastics and rubber products manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	g	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>MISSISSIPPI</b>													
31-33	Manufacturing .....	-	47	23	5 047	214 185	4 077	8 671	167 582	999 131	1 367 552	2 363 552	51 516
326	Plastics and rubber products manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	3	3	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	2	2	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	11	6	f	D	D	D	D	D	D	D	2 840
<b>NEVADA</b>													
31-33	Manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
<b>OUACHITA</b>													
31-33	Manufacturing .....	1	40	11	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	8	2	f	D	D	D	D	D	D	D	D
<b>PHILLIPS</b>													
31-33	Manufacturing .....	2	14	8	583	19 920	357	695	9 505	81 238	77 068	156 649	2 135
<b>POINSETT</b>													
31-33	Manufacturing .....	1	24	10	1 683	43 062	1 267	2 669	30 603	113 002	203 160	317 272	D
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
<b>POLK</b>													
31-33	Manufacturing .....	-	40	9	1 747	45 209	1 424	2 580	33 925	171 997	125 970	298 314	4 861
311	Food manufacturing .....	-	4	1	f	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
335	Electrical equipment, appliance, and component manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D

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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>POPE</b>													
31-33	Manufacturing .....	-	74	32	4 346	127 614	3 468	6 853	88 643	567 991	671 772	1 245 999	32 236
311	Food manufacturing .....	-	11	8	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	4	3	f	D	D	D	D	D	D	D	1 498
31161	Animal slaughtering and processing .....	-	4	3	f	D	D	D	D	D	D	D	1 498
326	Plastics and rubber products manufacturing .....	4	5	4	756	27 611	597	1 177	20 779	81 703	74 868	150 838	D
3262	Rubber product manufacturing ...	6	3	2	f	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	6	2	2	f	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	6	2	2	f	D	D	D	D	D	D	D	D
<b>PULASKI</b>													
31-33	Manufacturing .....	-	391	129	17 207	600 134	12 609	24 716	371 264	1 897 490	2 710 928	4 705 477	122 175
311	Food manufacturing .....	1	25	10	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	18	7	570	18 247	489	993	14 112	48 444	67 831	118 453	D
322	Paper manufacturing .....	-	8	5	916	35 051	751	1 582	25 226	112 403	96 173	206 847	D
3222	Converted paper product manufacturing .....	-	8	5	916	35 051	751	1 582	25 226	112 403	96 173	206 847	D
323	Printing and related support activities .....	4	67	13	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	4	67	13	g	D	D	D	D	D	D	D	D
32311	Printing .....	4	60	13	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	4	29	7	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	18	6	1 860	74 818	1 272	2 124	36 076	384 894	378 889	771 644	22 137
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	8	4	g	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	21	12	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	15	10	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	10	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	23	9	f	D	D	D	D	D	D	D	5 773
3273	Cement and concrete product manufacturing .....	3	16	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	55	17	3 528	121 872	2 903	5 824	89 134	296 317	171 061	476 907	8 587
3323	Architectural and structural metals manufacturing .....	-	18	10	h	D	D	D	D	D	D	D	4 599
33231	Plate work and fabricated structural product manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	-	7	5	g	D	D	D	D	D	D	D	3 505
33232	Ornamental and architectural metal products manufacturing .....	-	10	5	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	31	14	839	29 668	582	1 201	16 687	60 059	83 352	144 721	D

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<b>PULASKI—Con.</b>													
334	Computer and electronic product manufacturing .....	-	8	2	f	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	-	2	1	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	-	2	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	-	2	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	7	5	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing .....	-	2	2	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
336	Transportation equipment manufacturing .....	-	13	7	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>RANDOLPH</b>													
31-33	Manufacturing .....	-	38	8	1 443	36 760	1 111	2 094	26 615	123 921	97 437	218 848	4 538
332	Fabricated metal product manufacturing .....	-	8	3	720	23 314	597	1 223	19 047	70 185	59 941	128 473	D
3324	Boiler, tank, and shipping container manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	102
3399	Other miscellaneous manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	102
33999	All other miscellaneous manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>ST. FRANCIS</b>													
31-33	Manufacturing .....	-	23	7	h	D	D	D	D	D	D	D	9 006
311	Food manufacturing .....	-	3	2	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
311612	Meat processed from carcasses .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SALINE</b>													
31-33	Manufacturing .....	-	73	20	1 687	64 151	1 291	2 654	42 892	200 769	188 011	370 566	14 155
<b>SCOTT</b>													
31-33	Manufacturing .....	-	16	3	g	D	D	D	D	D	D	D	843
311	Food manufacturing .....	-	4	2	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

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>SEBASTIAN</b>													
31-33	Manufacturing .....	-	217	87	22 084	662 934	18 327	35 483	499 338	2 588 712	2 707 794	5 319 542	116 460
311	Food manufacturing .....	2	17	11	6 063	140 313	5 387	10 441	113 226	504 039	963 584	1 479 688	19 269
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	5	6	6	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	5	6	6	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	5	6	6	h	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	14	10	1 222	43 844	1 019	2 168	32 986	142 591	198 985	334 671	D
3222	Converted paper product manufacturing .....	-	14	10	1 222	43 844	1 019	2 168	32 986	142 591	198 985	334 671	D
32221	Paperboard container manufacturing .....	-	13	9	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	9	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	24	3	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	2	24	3	f	D	D	D	D	D	D	D	D
32311	Printing .....	2	24	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	10	8	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	10	8	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	7	6	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	7	6	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	40	10	g	D	D	D	D	D	D	D	3 418
333	Machinery manufacturing .....	-	15	5	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	7 817
335	Electrical equipment, appliance, and component manufacturing .....	-	8	6	i	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing ..	-	1	1	h	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	20	10	1 430	37 688	1 146	2 132	26 667	71 692	84 015	153 846	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	16	9	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	13	9	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	-	6	5	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	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>SEVIER</b>													
31-33	Manufacturing .....	-	14	5	2 546	47 261	2 131	4 408	35 052	116 360	224 097	330 317	5 051
311	Food manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
<b>STONE</b>													
31-33	Manufacturing .....	4	26	5	515	11 923	451	900	9 355	21 420	28 320	49 867	758
<b>UNION</b>													
31-33	Manufacturing .....	-	62	30	5 633	191 927	4 368	8 601	131 386	803 923	1 556 078	2 342 660	41 208
311	Food manufacturing .....	2	6	1	g	D	D	D	D	D	D	D	D
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
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	15	10	862	28 647	740	1 653	22 650	48 123	164 387	214 572	10 785
3211	Sawmills and wood preservation ..	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
32111	Sawmills and wood preservation .....	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
321113	Sawmills .....	-	9	6	500	17 432	436	957	14 210	22 683	116 494	139 772	7 681
324	Petroleum and coal products manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	5	4	797	45 319	564	930	30 863	134 454	157 893	292 740	D
3251	Basic chemical manufacturing ...	-	4	3	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	4	4	682	22 901	501	998	12 607	47 968	66 673	115 169	5 376
<b>VAN BUREN</b>													
31-33	Manufacturing .....	-	11	3	540	11 963	481	850	9 712	29 670	78 159	108 088	2 887

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</b>													
31-33	Manufacturing .....	—	214	63	15 427	433 383	12 560	24 200	304 598	1 608 089	1 263 671	2 891 210	59 306
311	Food manufacturing .....	—	30	16	6 740	142 241	6 033	10 578	112 299	871 231	604 943	1 495 258	20 839
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	2	2	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	8	6	4 056	67 342	3 791	6 113	57 793	495 131	202 536	716 692	D
31161	Animal slaughtering and processing .....	—	8	6	4 056	67 342	3 791	6 113	57 793	495 131	202 536	716 692	D
311615	Poultry processing .....	—	6	5	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	5	2	f	D	D	D	D	D	D	D	214
321	Wood product manufacturing .....	5	16	7	642	15 631	561	1 133	11 923	25 389	25 456	50 150	D
325	Chemical manufacturing .....	—	8	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	—	3	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	40	14	3 147	106 670	2 624	5 421	79 779	273 175	232 140	501 234	D
3322	Cutlery and handtool manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	—	9	4	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	—	6	1	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	—	6	1	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	4	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	18	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	6	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	17	4	f	D	D	D	D	D	D	D	D
<b>WHITE</b>													
31-33	Manufacturing .....	3	80	30	4 466	122 605	3 505	6 857	86 870	386 652	504 284	883 254	17 372
311	Food manufacturing .....	9	8	5	1 080	27 950	882	1 622	18 689	113 851	162 915	277 525	D
3116	Animal slaughtering and processing .....	9	4	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	4	3	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	3	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	10	4	620	11 375	334	760	7 184	16 180	37 986	54 619	D
3219	Other wood product manufacturing .....	—	8	3	f	D	D	D	D	D	D	D	D
32191	Millwork .....	—	4	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	17	6	988	28 162	795	1 451	18 585	96 028	65 231	158 873	2 983
3329	Other fabricated metal product manufacturing .....	—	5	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>YELL</b>												
31-33	Manufacturing .....	—	24	6	3 671	67 449	2 792	5 261	56 159	235 027	220 983	453 311	7 471
311	Food manufacturing .....	—	4	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
311615	Poultry processing .....	—	2	2	h	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

<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>ARKADELPHIA</b>													
31-33	Manufacturing .....	-	15	6	f	D	D	D	D	D	D	D	9 130
333	Machinery manufacturing .....	-	2	1	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>BATESVILLE</b>													
31-33	Manufacturing .....	-	26	10	3 072	70 551	2 653	5 772	53 572	281 401	339 993	618 340	D
311	Food manufacturing .....	-	5	4	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	3	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BENTON</b>													
31-33	Manufacturing .....	-	31	9	801	25 132	619	1 195	16 995	58 940	57 093	114 608	4 811
<b>BENTONVILLE</b>													
31-33	Manufacturing .....	3	23	8	1 106	32 496	946	1 875	25 282	133 050	217 502	350 221	5 340
311	Food manufacturing .....	2	5	3	f	D	D	D	D	D	D	D	D
<b>BERRYVILLE</b>													
31-33	Manufacturing .....	9	7	3	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	9	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	1	1	g	D	D	D	D	D	D	D	D
<b>BLYTHEVILLE</b>													
31-33	Manufacturing .....	-	19	8	g	D	D	D	D	D	D	D	18 335
331	Primary metal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	7	4	f	D	D	D	D	D	D	D	D
<b>BOONEVILLE</b>													
31-33	Manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	1	1	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
311611	Animal (except poultry) slaughtering .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CAMDEN</b>													
31-33	Manufacturing .....	-	19	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	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>CLARKSVILLE</b>													
31-33	Manufacturing .....	-	22	9	2 552	59 510	2 247	4 357	48 232	222 438	140 774	362 774	8 253
311	Food manufacturing .....	-	4	3	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
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31511	Hosiery and sock mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CONWAY</b>													
31-33	Manufacturing .....	-	58	21	6 451	185 271	5 138	8 697	127 203	729 065	561 759	1 290 769	34 521
322	Paper manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	8	5	g	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	6	3	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>CORNING</b>													
31-33	Manufacturing .....	2	7	4	888	19 832	820	1 607	17 117	50 076	48 234	100 458	D
337	Furniture and related product manufacturing .....	2	2	2	f	D	D	D	D	D	D	D	D
<b>CROSSETT</b>													
31-33	Manufacturing .....	-	15	8	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>DARDANELLE</b>													
31-33	Manufacturing .....	-	4	1	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	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>DE QUEEN</b>													
31-33	Manufacturing .....	-	10	4	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
<b>DUMAS</b>													
31-33	Manufacturing .....	-	8	6	f	D	D	D	D	D	D	D	D
<b>EL DORADO</b>													
31-33	Manufacturing .....	-	29	13	3 486	100 802	2 682	5 193	67 628	585 199	1 142 611	1 708 508	19 098
311	Food manufacturing .....	2	5	1	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
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FAYETTEVILLE</b>													
31-33	Manufacturing .....	1	65	25	6 299	196 532	4 888	10 313	134 130	640 199	491 035	1 136 921	32 127
311	Food manufacturing .....	1	9	6	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	2	2	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	10	6	1 126	38 041	980	2 193	30 777	123 388	69 482	192 755	3 933
3328	Coating, engraving, heat treating, and allied activities .....	-	2	1	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	-	2	1	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	-	2	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
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	6	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	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>FORREST CITY</b>													
31-33	Manufacturing .....	-	16	4	h	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	3	2	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
311612	Meat processed from carcasses .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FORT SMITH</b>													
31-33	Manufacturing .....	1	176	73	18 527	548 162	15 594	30 487	418 101	1 889 691	2 338 707	4 248 813	100 713
311	Food manufacturing .....	2	14	10	i	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
31142	Fruit and vegetable canning, pickling, and drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	5	5	5	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	5	5	5	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	5	5	5	h	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	13	9	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	13	9	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	12	8	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	8	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	23	3	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	2	23	3	f	D	D	D	D	D	D	D	D
32311	Printing .....	2	23	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	8	7	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	8	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	6	6	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	6	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	32	9	f	D	D	D	D	D	D	D	3 264
333	Machinery manufacturing .....	-	12	4	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
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

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>FORT SMITH—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	—	7	5	i	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
335222	Household refrigerator and home freezer manufacturing .....	—	1	1	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	16	8	1 294	33 785	1 030	1 882	23 563	65 857	79 914	143 117	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	14	8	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	—	12	8	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	—	6	5	g	D	D	D	D	D	D	D	D
<b>GREEN FOREST</b>													
31-33	Manufacturing .....	—	6	2	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>HARRISON</b>													
31-33	Manufacturing .....	2	42	13	2 215	67 002	1 854	3 835	46 799	165 926	150 324	317 453	3 912
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
331521	Aluminum die-casting foundries .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>HEBER SPRINGS</b>													
31-33	Manufacturing .....	—	18	5	985	27 753	622	1 242	12 632	70 190	78 941	150 107	628
333	Machinery manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
<b>HOPE</b>													
31-33	Manufacturing .....	—	27	15	3 669	98 557	2 933	5 830	66 649	331 533	294 934	625 642	13 388
311	Food manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
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
311812	Commercial bakeries .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>HOT SPRINGS</b>													
31-33	Manufacturing .....	4	50	9	1 646	49 709	1 017	1 873	31 206	109 906	137 275	248 901	8 738
326	Plastics and rubber products manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>JACKSONVILLE</b>													
31-33	Manufacturing .....	—	31	13	1 419	48 240	982	2 155	27 706	139 256	143 226	280 302	4 176

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>JONESBORO</b>													
31-33	Manufacturing .....	2	107	43	6 556	195 947	5 088	9 530	130 806	606 337	713 634	1 317 846	D
311	Food manufacturing .....	2	8	3	786	21 968	616	1 244	14 266	97 216	261 790	358 607	6 377
323	Printing and related support activities .....	—	11	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	—	11	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	11	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	5	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	15	6	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	—	12	4	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	4	6	4	567	19 766	490	971	16 018	42 670	48 741	87 590	D
336	Transportation equipment manufacturing .....	5	2	2	f	D	D	D	D	D	D	D	D
<b>LITTLE ROCK</b>													
31-33	Manufacturing .....	—	205	67	10 061	352 694	7 409	14 151	224 861	920 443	1 992 586	3 012 219	73 053
311	Food manufacturing .....	2	12	6	869	26 281	685	1 359	16 234	108 678	303 404	413 505	10 592
323	Printing and related support activities .....	5	46	8	868	29 730	632	1 222	18 815	77 087	45 427	121 208	4 083
3231	Printing and related support activities .....	5	46	8	868	29 730	632	1 222	18 815	77 087	45 427	121 208	4 083
32311	Printing .....	6	40	8	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	5	21	5	516	17 703	381	762	11 504	36 901	23 004	59 878	2 696
326	Plastics and rubber products manufacturing .....	1	9	7	553	18 839	382	736	9 689	58 326	34 743	90 855	5 930
332	Fabricated metal product manufacturing .....	—	25	8	3 015	100 823	2 571	5 132	77 958	240 446	134 172	384 460	6 970
3323	Architectural and structural metals manufacturing .....	—	6	5	2 665	84 988	2 366	4 792	71 115	212 380	111 141	330 981	D
33231	Plate work and fabricated structural product manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	21	9	611	21 767	406	852	11 408	41 838	59 246	102 062	7 637
336	Transportation equipment manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
<b>MAGNOLIA</b>													
31-33	Manufacturing .....	1	20	11	1 625	46 699	1 282	2 558	31 288	87 178	78 191	167 984	D
332	Fabricated metal product manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	471
33232	Ornamental and architectural metal products manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>MALVERN</b>													
31-33	Manufacturing .....	4	22	9	931	27 889	776	1 628	21 549	100 724	74 172	180 770	5 130
<b>MARKED TREE</b>													
31-33	Manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

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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>MAUMELLE</b>													
31-33	Manufacturing .....	-	8	5	1 212	47 691	809	1 863	25 126	331 269	150 293	479 603	15 691
335	Electrical equipment, appliance, and component manufacturing .....	-	1	f	D	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	f	D	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ...	-	1	f	D	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	-	1	f	D	D	D	D	D	D	D	D	D
<b>MENA</b>													
31-33	Manufacturing .....	-	14	4	900	27 638	738	1 398	20 435	96 861	66 971	163 545	2 422
335	Electrical equipment, appliance, and component manufacturing .....	-	2	f	D	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	2	f	D	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	2	f	D	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	2	f	D	D	D	D	D	D	D	D	D
<b>MONTICELLO</b>													
31-33	Manufacturing .....	5	22	10	1 062	28 982	904	1 726	21 787	60 232	94 237	151 912	2 207
<b>MORRILTON</b>													
31-33	Manufacturing .....	-	15	7	860	32 495	657	1 343	22 093	137 538	138 687	272 243	D
<b>MOUNTAIN HOME</b>													
31-33	Manufacturing .....	-	26	5	h	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	1	g	D	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	1	g	D	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	1	g	D	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	1	g	D	D	D	D	D	D	D	D	D
<b>NASHVILLE</b>													
31-33	Manufacturing .....	-	16	7	3 645	74 779	3 373	6 156	61 067	275 872	329 548	600 393	D
311	Food manufacturing .....	-	3	g	D	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	g	D	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	g	D	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	g	D	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	1	g	D	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing .....	-	1	g	D	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	-	1	g	D	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	-	1	g	D	D	D	D	D	D	D	D	D
<b>NORTH LITTLE ROCK</b>													
31-33	Manufacturing .....	2	73	29	2 981	103 955	2 143	3 827	58 200	354 831	299 947	656 173	19 683
325	Chemical manufacturing .....	3	6	g	D	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .	3	5	g	D	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	3	3	g	D	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	3	3	g	D	D	D	D	D	D	D	D	D
<b>OZARK</b>													
31-33	Manufacturing .....	3	7	3	643	15 453	585	1 137	12 732	50 804	31 024	78 086	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]

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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>PARAGOULD</b>													
31-33	Manufacturing .....	-	37	15	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	3	3	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
336	Transportation equipment manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>PARIS</b>													
31-33	Manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>PIGGOTT</b>													
31-33	Manufacturing .....	4	7	4	f	D	D	D	D	D	D	D	D
<b>PINE BLUFF</b>													
31-33	Manufacturing .....	-	62	29	i	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	7	6	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
322	Paper manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	g	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
3353	Electrical equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
335311	Power, distribution, and specialty transformer 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	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>POCAHONTAS</b>													
31-33	Manufacturing .....	-	16	7	1 348	34 030	1 029	1 951	24 904	117 833	92 042	207 348	4 356
332	Fabricated metal product manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>PRESCOTT</b>													
31-33	Manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
<b>ROGERS</b>													
31-33	Manufacturing .....	1	56	25	5 452	175 946	4 564	9 441	133 276	772 399	391 709	1 164 976	42 766
311	Food manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	4 165
3116	Animal slaughtering and processing .....	-	3	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	3	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	3	3	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	1	3	3	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	9	6	3	706	30 157	492	949	19 296	59 384	43 514	102 506	D
3335	Metalworking machinery manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing...	9	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
3363	Motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>RUSSELLVILLE</b>													
31-33	Manufacturing .....	-	54	26	4 046	120 029	3 237	6 471	83 319	518 605	564 339	1 088 167	28 725
311	Food manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	1	1	g	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
326	Plastics and rubber products manufacturing .....	4	5	4	756	27 611	597	1 177	20 779	81 703	74 868	150 838	D
3262	Rubber product manufacturing ...	6	3	2	f	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	6	2	2	f	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	6	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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		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>SEARCY</b>													
31-33	Manufacturing .....	3	32	17	3 220	95 625	2 716	5 287	70 527	338 713	442 502	772 501	11 658
311	Food manufacturing .....	9	4	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	9	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	2	2	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>SHERIDAN</b>													
31-33	Manufacturing .....	-	7	4	598	18 138	466	894	10 621	68 507	93 186	158 882	D
<b>SILLOAM SPRINGS</b>													
31-33	Manufacturing .....	-	15	10	2 239	63 665	1 777	3 755	46 798	315 710	180 175	501 923	10 858
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber and plastics hoses and belting manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor and generator manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SPRINGDALE</b>													
31-33	Manufacturing .....	-	106	32	8 699	224 395	7 348	13 280	162 848	944 687	752 543	1 711 303	25 402
311	Food manufacturing .....	-	19	9	4 453	81 077	4 077	6 699	65 821	570 343	379 409	968 293	D
3116	Animal slaughtering and processing .....	-	6	5	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	6	5	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	6	5	h	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	4	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	18	7	1 910	65 245	1 556	3 066	46 742	143 274	156 026	295 189	5 055
3322	Cutlery and handtool manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	-	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>STUTTGART</b>													
31-33	Manufacturing .....	-	15	11	2 586	79 388	1 997	3 811	61 166	189 241	844 742	977 443	15 771
311	Food manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	-	4	4	g	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
311212	Rice milling .....	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	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	g	D	D	D	D	D	D	D	D
<b>TEXARKANA</b>													
31-33	Manufacturing .....	-	19	6	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	g	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>TRUMANN</b>													
31-33	Manufacturing .....	3	8	5	770	20 195	608	1 245	14 521	41 776	96 509	138 694	D
<b>VAN BUREN</b>													
31-33	Manufacturing .....	-	38	16	2 973	77 586	2 539	5 325	61 918	261 894	320 681	589 475	8 909
311	Food manufacturing .....	-	5	4	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>WALDRON</b>													
31-33	Manufacturing .....	-	12	3	g	D	D	D	D	D	D	D	829
311	Food manufacturing .....	-	4	2	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
<b>WALNUT RIDGE</b>													
31-33	Manufacturing .....	1	10	5	829	20 213	664	1 097	12 088	51 921	103 417	154 204	1 047
333	Machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
333991	Power-driven handtool manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>WARREN</b>													
31-33	Manufacturing .....	-	7	5	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>WEST MEMPHIS</b>													
31-33	Manufacturing .....	-	38	15	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	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>WYNNE</b>													
31-33	Manufacturing .....	-	9	5	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	-	2	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying .....	-	2	2	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BAXTER COUNTY</b>													
31-33	Manufacturing .....	2	27	8	f	D	D	D	D	D	D	D	D
<b>BALANCE OF BENTON COUNTY</b>													
31-33	Manufacturing .....	2	56	14	2 311	71 509	1 773	3 834	49 683	195 500	339 825	535 522	6 179
311	Food manufacturing .....	6	2	2	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	9	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	9	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CLARK COUNTY</b>													
31-33	Manufacturing .....	-	15	6	g	D	D	D	D	D	D	D	2 337
311	Food manufacturing .....	-	1	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
321	Wood product manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF CLEBURNE COUNTY</b>													
31-33	Manufacturing .....	2	25	5	504	14 386	388	795	10 155	32 355	19 307	51 707	2 914
<b>BALANCE OF COLUMBIA COUNTY</b>													
31-33	Manufacturing .....	-	15	6	1 373	56 350	948	2 124	36 106	264 933	229 069	478 142	D
325	Chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF GARLAND COUNTY</b>													
31-33	Manufacturing .....	-	74	20	2 388	78 115	1 870	3 731	51 117	193 010	286 195	468 572	16 929
326	Plastics and rubber products manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	6	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF GREENE COUNTY</b>													
31-33	Manufacturing .....	-	16	5	f	D	D	D	D	D	D	D	D
<b>BALANCE OF HEMPSTEAD COUNTY</b>													
31-33	Manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



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

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

NAICS code	Geographic area and industry	E <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>BALANCE OF HOWARD COUNTY</b>													
31-33	Manufacturing .....	-	11	7	776	27 695	697	1 564	23 763	123 945	148 498	273 008	D
<b>BALANCE OF INDEPENDENCE COUNTY</b>													
31-33	Manufacturing .....	-	27	7	1 679	65 327	1 341	2 748	45 310	172 600	166 888	341 001	D
325	Chemical manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF JEFFERSON COUNTY</b>													
31-33	Manufacturing .....	-	12	5	f	D	D	D	D	D	D	D	D
<b>BALANCE OF LITTLE RIVER COUNTY</b>													
31-33	Manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>BALANCE OF LOGAN COUNTY</b>													
31-33	Manufacturing .....	-	15	5	732	19 418	545	1 103	13 022	34 643	48 226	83 294	D
<b>BALANCE OF LONOKE COUNTY</b>													
31-33	Manufacturing .....	-	17	4	1 097	35 441	918	2 058	26 286	130 865	87 209	209 039	D
332	Fabricated metal product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
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
<b>BALANCE OF MADISON COUNTY</b>													
31-33	Manufacturing .....	-	24	7	1 394	33 865	1 148	1 966	24 995	30 504	159 812	185 465	5 292
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
<b>BALANCE OF MARION COUNTY</b>													
31-33	Manufacturing .....	-	21	9	1 666	38 934	1 381	2 733	27 296	80 590	101 950	183 272	2 561
336	Transportation equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	2	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	2	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	2	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	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 MISSISSIPPI COUNTY</b>													
31-33	Manufacturing .....	-	17	10	2 521	110 067	2 151	4 739	95 522	559 349	666 883	1 217 631	27 587
326	Plastics and rubber products manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF OUACHITA COUNTY</b>													
31-33	Manufacturing .....	1	21	8	1 595	51 647	1 321	2 426	39 299	159 977	239 224	370 678	D
<b>BALANCE OF POLK COUNTY</b>													
31-33	Manufacturing .....	1	26	5	847	17 571	686	1 182	13 490	75 136	58 999	134 769	2 439
311	Food manufacturing .....	-	2	1	f	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
<b>BALANCE OF PULASKI COUNTY</b>													
31-33	Manufacturing .....	-	56	14	1 436	44 763	1 198	2 586	33 516	145 099	120 897	266 610	9 350
334	Computer and electronic product manufacturing .....	-	1	1	f	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
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SALINE COUNTY</b>													
31-33	Manufacturing .....	-	32	8	770	34 836	586	1 272	23 165	133 393	118 011	234 596	8 607
<b>BALANCE OF SEBASTIAN COUNTY</b>													
31-33	Manufacturing .....	-	31	11	3 311	107 118	2 545	4 605	76 261	686 528	350 588	1 039 120	D
333	Machinery manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	g	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	g	D	D	D	D	D	D	D	D
<b>BALANCE OF UNION COUNTY</b>													
31-33	Manufacturing .....	-	33	17	2 147	91 125	1 686	3 408	63 758	218 724	413 467	634 152	22 110
321	Wood product manufacturing .....	-	12	9	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	2	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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

NAICS code	Geographic area and industry	E <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>BALANCE OF VAN BUREN COUNTY</b>													
31-33	Manufacturing .....	-	11	3	540	11 963	481	850	9 712	29 670	78 159	108 088	2 887
<b>BALANCE OF WHITE COUNTY</b>													
31-33	Manufacturing .....	-	35	9	874	16 938	503	1 011	10 040	30 902	46 637	78 462	4 519
321	Wood product manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF YELL COUNTY</b>													
31-33	Manufacturing .....	-	20	5	h	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	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

<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>ARKANSAS</b>	
Companies <sup>1</sup> .....	N
All establishments <sup>2</sup> .....	'3 185
Establishments with 1 to 19 employees .....	2 091
Establishments with 20 to 99 employees .....	645
Establishments with 100 employees or more .....	'449
All employees <sup>3</sup> .....	'210 394
Total compensation .....	\$1,000.. '8 010 135
Annual payroll .....	\$1,000.. '6 309 251
Total fringe benefits .....	\$1,000.. '1 700 884
Production workers, average for year .....	number.. '169 867
Production workers on March 12 .....	number.. '170 424
Production workers on May 12 .....	number.. '170 306
Production workers on August 12 .....	number.. '170 526
Production workers on November 12 .....	number.. '167 906
Production worker hours .....	..1,000.. '334 390
Production worker wages .....	\$1,000.. '4 532 650
Total cost of materials .....	\$1,000.. '24 899 853
Materials, parts, containers, packaging, etc., used .....	\$1,000.. '22 296 673
Resales .....	\$1,000.. 1 241 563
Purchased fuels .....	\$1,000.. '483 252
Purchased electricity .....	\$1,000.. '566 774
Contract work .....	\$1,000.. '311 591
Quantity of electricity purchased for heat and power .....	1,000 kWh.. '14 382 869
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 263 335
Total value of shipments .....	\$1,000.. '46 721 413
Value of resales .....	\$1,000.. 1 440 791
Value added .....	\$1,000.. '21 965 415
Total inventories, beginning of year .....	\$1,000.. '4 950 958
Finished goods inventories .....	\$1,000.. '2 313 464
Work-in-process inventories .....	\$1,000.. '815 281
Materials and supplies inventories .....	\$1,000.. '1 822 213
Total inventories, end of year .....	\$1,000.. '5 178 629
Finished goods inventories .....	\$1,000.. '2 418 932
Work-in-process inventories .....	\$1,000.. '837 848
Materials and supplies inventories .....	\$1,000.. '1 921 849
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '21 675 337
Total capital expenditures (new and used) .....	\$1,000.. '1 209 902
Buildings and other structures (new and used) .....	\$1,000.. '189 444
Machinery and equipment (new and used) .....	\$1,000.. '1 020 458
Automobiles, trucks, etc., for highway use .....	\$1,000.. '31 146
Computers and peripheral data processing equipment .....	\$1,000.. '43 715
All other expenditures for machinery and equipment .....	\$1,000.. '945 597
Total retirements .....	\$1,000.. '1 042 070
Gross value of depreciable assets at end of year .....	\$1,000.. '21 843 169
Depreciation charges during year .....	\$1,000.. '1 437 962
Total rental payments .....	\$1,000.. '593 301
Buildings and other structures .....	\$1,000.. 411 747
Machinery and equipment .....	\$1,000.. '181 554

<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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### ARKANSAS

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

**Cherokee Village** is in Fulton and Sharp Counties; it incorporated in January 1997. This change deletes territory from the Balances of Fulton and Sharp Counties.

**Fairfield Bay** is no longer tabulated separately due to a population decrease. This change adds territory to the Balances of Cleburne and Van Buren Counties.

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

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

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

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

**Springdale** is in Benton and Washington Counties.

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

**Balance of Benton County** no longer includes Little Flock, which is tabulated separately due to a population increase.

**Balance of Cleburne County** includes Fairfield Bay (part), which is no longer tabulated separately due to a population decrease.

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

**Balance of Fulton County** lost territory due to the incorporation of Cherokee Village (part).

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

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

**Balance of Sharp County** lost territory due to the incorporation of Cherokee Village (part).

**Balance of Van Buren County** includes Fairfield Bay (part), which is no longer tabulated separately due to a population decrease.

**Balance of Washington County** no longer includes Farmington and Prairie Grove, which are tabulated separately due to a population increase.

# Appendix E.

## Metropolitan and Micropolitan Statistical Areas

### **LITTLE ROCK-NORTH LITTLE ROCK-PINE BLUFF, AR COMBINED STATISTICAL AREA**

#### **Little Rock-North Little Rock, AR Metropolitan Statistical Area**

Faulkner County, AR

Grant County, AR

Lonoke County, AR

Perry County, AR

Pulaski County, AR

Saline County, AR

#### **Pine Bluff, AR Metropolitan Statistical Area**

Cleveland County, AR

Jefferson County, AR

Lincoln County, AR

#### **Searcy, AR Micropolitan Statistical Area**

White County, AR

### **ARKADELPHIA, AR MICROPOLITAN STATISTICAL AREA**

Clark County, AR

### **BATESVILLE, AR MICROPOLITAN STATISTICAL AREA**

Independence County, AR

### **BLYTHEVILLE, AR MICROPOLITAN STATISTICAL AREA**

Mississippi County, AR

### **CAMDEN, AR MICROPOLITAN STATISTICAL AREA**

Calhoun County, AR

Ouachita County, AR

### **EL DORADO, AR MICROPOLITAN STATISTICAL AREA**

Union County, AR

### **FAYETTEVILLE-SPRINGDALE-ROGERS, AR-MO METROPOLITAN STATISTICAL AREA**

Benton County, AR

Madison County, AR

Washington County, AR

McDonald County, MO

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**FORREST CITY, AR MICROPOLITAN STATISTICAL AREA**

St. Francis County, AR

**FORT SMITH, AR-OK METROPOLITAN STATISTICAL AREA**

Crawford County, AR

Franklin County, AR

Sebastian County, AR

Le Flore County, OK

Sequoyah County, OK

**HARRISON, AR MICROPOLITAN STATISTICAL AREA**

Boone County, AR

Newton County, AR

**HOPE, AR MICROPOLITAN STATISTICAL AREA**

Hempstead County, AR

Nevada County, AR

**HOT SPRINGS, AR METROPOLITAN STATISTICAL AREA**

Garland County, AR

**JONESBORO, AR METROPOLITAN STATISTICAL AREA**

Craighead County, AR

Poinsett County, AR

**MAGNOLIA, AR MICROPOLITAN STATISTICAL AREA**

Columbia County, AR

**MEMPHIS, TN-MS-AR METROPOLITAN STATISTICAL AREA**

Crittenden County, AR

DeSoto County, MS

Marshall County, MS

Tate County, MS

Tunica County, MS

Fayette County, TN

Shelby County, TN

Tipton County, TN

**MOUNTAIN HOME, AR MICROPOLITAN STATISTICAL AREA**

Baxter County, AR

**PARAGOULD, AR MICROPOLITAN STATISTICAL AREA**

Greene County, AR



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**RUSSELLVILLE, AR MICROPOLITAN STATISTICAL AREA**

Pope County, AR

Yell County, AR

**TEXARKANA, TX-TEXARKANA, AR METROPOLITAN STATISTICAL AREA**

Miller County, AR

Bowie County, TX

**WEST HELENA, AR MICROPOLITAN STATISTICAL AREA**

Phillips County, AR

