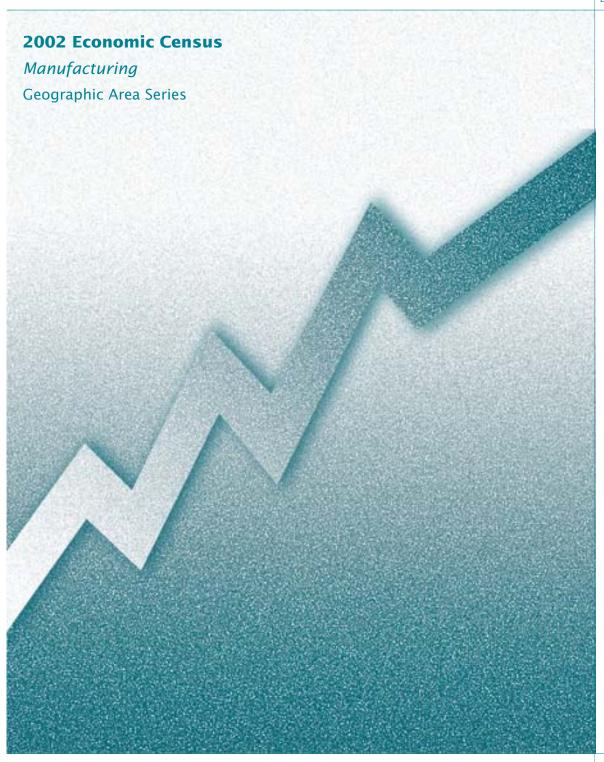
EC02-31A-IA (RV)





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### **2002 Economic Census**

Manufacturing
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

#### PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

### INDUSTRY CLASSIFICATIONS

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

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

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

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

#### RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

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

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

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

#### **BASIS OF REPORTING**

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

#### **GEOGRAPHIC AREA CODING**

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

### **AVAILABILITY OF ADDITIONAL DATA**

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

#### HISTORICAL INFORMATION

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

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

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

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

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

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

### **SOURCES FOR MORE INFORMATION**

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

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# Manufacturing

### **SCOPE**

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

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

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

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

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

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

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

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

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

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

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

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

### **REPORTS**

The following reports provide statistics on this sector:

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

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

U.S. Census Bureau, 2002 Economic Census

### **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 contain statistics on the number of establishments for the three-and six-digit NAICS industry by employment-size of the establishment by ZIP Code.

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

#### GEOGRAPHIC AREAS COVERED

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

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

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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.

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

### **DISCLOSURE**

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

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

### AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

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

### **CONTACTS FOR DATA USERS**

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

#### **ABBREVIATIONS AND SYMBOLS**

The following abbreviations and symbols are used with these data:

- A Standard error of 100 percent or more
- D Withheld to avoid disclosing data of individual companies; data are included in higher level totals
- F Exceeds 100 percent because data include establishments with payroll exceeding revenue
- N Not available or not comparable
- S Withheld because estimates did not meet publication standards
- X Not applicable
- Z Less than half the unit shown
- a 0 to 19 employees
- b 20 to 99 employees
- c 100 to 249 employees

e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees
l	50,000 to 99,999 employees
m	100,000 employees or more
p q r s nsk – (CC)	10 to 19 percent estimated 20 to 29 percent estimated Revised Sampling error exceeds 40 percent Not specified by kind Represents zero (page image/print only) Consolidated city Independent city

# Table 1. Industry Statistics for the State: 2002

		T	or table. I	01 111101111	allon on geo	grapriic areas	ollowed by ,	3ce Append	iix D. Tol lilea	Tilling of abbrevia	and symb	Jis, see iiitioddc	lory text]
			A establish	.ll nments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA												
31-33	Manufacturing	_	3 804	1 339	222 968	8 125 864	163 122	322 354	5 108 312	r31 394 257	33 504 006	r65 042 043	1 705 013
311	Food manufacturing	_	509	213	49 869	1 644 465	40 207	85 324	1 193 881	7 832 400	14 239 146	21 940 417	615 242
3111	Animal food manufacturing	_	107	36	3 022	123 534	1 858	3 799	68 138	1 306 342	1 090 358	2 331 551	74 587
31111	Animal food manufacturing	-	107	36	3 022	123 534	1 858	3 799	68 138	1 306 342	1 090 358	2 331 551	74 587
311111	Dog and cat food manufacturing	_	7	4	f	D	D	D	D	D	D	D	D
311119	Other animal food manufacturing	1	100	32	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	_	45	32	5 589	291 575	3 952	8 609	184 294	1 903 877	4 584 957	6 452 346	147 016
31121	Flour milling and malt					_						_	
311211	manufacturing	_	8 8	4 4	e e	D D	D D	D D	D D	D D	D D	D D	D D
31122	Starch and vegetable fats and oils manufacturing	_	35	26	3 933	203 643	2 578	5 448	114 049	1 362 177	4 149 517	5 477 400	116 099
311221 311222	Wet corn milling	_	12 20	11 13	3 020 f	169 650 D	1 877 D	4 082 D	92 363 D	1 005 604 D	1 676 347 D	2 666 208 D	97 798 D
31123	Breakfast cereal manufacturing	_	2	2	g	D	D	D	D	D	D	D	D .
311230	Breakfast cereal manufacturing	_	2	2		D	D	D	D	D	D	D	5
3113	Sugar and confectionery product	_		2	g	D	D	U		U	U	D	U
0110	manufacturing	-	21	3	f	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao												
311320	beans	-	1	1	е	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao					_						_	
31134	beans Nonchocolate confectionery	_	1	1	е	D	D	D	D	D	D	D	D
311340	manufacturing	-	5	1	С	D	D	D	D	D	D	D	D
	manufacturing	-	5	1	С	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food												
	manufacturing	-	18	10	3 026	115 444	2 624	5 380	92 363	1 155 389	524 531	1 687 548	90 440
31141 311412	Frozen food manufacturing Frozen specialty food	-	9	4	1 355	34 157	1 216	2 550	27 280	220 205	193 239	414 817	D
31142	manufacturing Fruit and vegetable canning,	-	7	4	g	D	D	D	D	D	D	D	15 590
311421	pickling, and drying	_	9 7	6 4	1 671 f	81 287 D	1 408 D	2 830 D	65 083 D	935 184 D	331 292 D	1 272 731 D	D D
311423	Dried and dehydrated food manufacturing	_	1	1	· f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	_	30	20	3 496	128 325	2 696	6 086	97 252	423 373	1 110 579	1 541 354	77 234
31151	Dairy product (except frozen)												
311511	manufacturing	_	26 11	18 9	g 1 274	D 42 260	D 648	D 1 511	D 22 417	D 161 117	D 375 332	D 535 324	D 14 742
311513 311514	Cheese manufacturing Dry, condensed, and	-	10	6	683	21 347	587	1 113	15 460	100 185	351 015	455 222	D
	evaporated dairy product manufacturing	_	5	3	С	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing		4	2		D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert	_	4	2	g			_		_	0	D	0
3116	manufacturing  Animal slaughtering and	_	4	2	9	D	D	D	D	ט	U	ט	U
3110	processing	2	154	64	28 127	771 792	24 563	52 918	624 103	2 052 167	6 032 140	8 044 331	155 496
31161	Animal slaughtering and	2	154	64	28 127	771 792	24 563	52 918	624 103	2 052 167	6 032 140	8 044 331	155 496
311611	processing												
311612	slaughtering	1	92	27	17 924	470 443	15 766	35 166	388 821	1 168 846	4 493 530	5 644 873	46 765
311613	carcasses	1	44	25	7 414	231 472	6 336	13 368	181 062	711 007	1 259 778	1 952 965	90 341
311615	byproduct processing Poultry processing	7	9	6 6	405 2 384	14 255 55 622	310 2 151	596 3 788	9 913 44 307	71 968 100 346	49 335 229 497	114 479 332 014	6 543 11 847
3118	Bakeries and tortilla												
	manufacturing	-	75	17	2 637	77 328	1 425	2 582	38 021	197 697	144 384	339 106	D
31181	Bread and bakery product manufacturing	_	67	13	1 985	57 165	867	1 283	23 771	122 132	67 444	189 732	D
311811 311812	Retail bakeries Commercial bakeries	6	48 17	5 7	e 1 487	D 50 072	D 608	D 962	D 20 458	D 107 366	D 60 139	D 167 661	D D
31182	Cookie, cracker, and pasta manufacturing	_	6	4	f	D	D	D	D .00	D	D	D	D
311821	Cookie and cracker manufacturing		2	2	,	D	D	D	D	D	D	D	D
3119	Other food manufacturing	2	57	30	3 326	116 087	2 596	4 861	75 559	745 274	596 707	1 341 774	31 313
3119	Snack food manufacturing	2	7	30		116 087 D	2 596 D	4 861 D	75 559 D	745 274 D	596 707 D	1 341 774 D	31 313 D
311919	Other snack food	-			105								
31194	manufacturing Seasoning and dressing	_	5	3	195	5 689	157	307	3 759	59 766	36 162	95 242	D
311941	manufacturing	3	8	4	f	D	D	D	D	D	D	D	8 115
	other prepared sauce manufacturing	2	4	1	С	D	D	D	D	D	D	D	D
311942	Spice and extract manufacturing			3	864	42 739	560	817	22 591	232 332	115 668	348 499	D
		_				50							_

1011110, 1	and geographical delimitoris, see note at	Cita	A A							aning of approvid	and dymb	510, 000 IIII 0000	lory toxt
			establis	nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA-Con.					, , ,					, , ,	, , ,	
311	Food manufacturing—Con.												
3119 31199	Other food manufacturing—Con.	2	41	23	2 128	63 048	1 777	3 535	46 206	435 756	417 404	853 360	21 552
311991	All other food manufacturing Perishable prepared food manufacturing	5	6	4	325	9 243	264	517	6 149	28 940	18 817	47 646	795
311999	All other miscellaneous food manufacturing	1	35	19	1 803	53 805	1 513	3 018	40 057	406 816	398 587	805 714	20 757
312	Beverage and tobacco product	2		-	692	00.440	252	457	7 763	100.055	139 948	264 766	D
3121	manufacturing  Beverage manufacturing	2	11	5 5	692	20 443 20 443	252	457	7 763	123 255 123 255	139 948	264 766	D
31211	Soft drink and ice		_	-				D					
312111	manufacturing Soft drink manufacturing	2	7 4	5 4	609	D 18 363	D 216	410	7 113	116 099	D 137 713	D 255 377	D D
314	Textile product mills	-	46	12	1 387	40 616	1 041	1 789	20 834	102 757	125 476	234 951	4 157
3141	Textile furnishings mills	_	18	5	520	12 534	437	734	9 335	36 253	42 492	81 212	724
31412 314129	Curtain and linen mills Other household textile product mills	_	17 4	4	e 410	D 9 407	D 375	D 636	8 180	D 26 322	D 37 288	D 66 112	D D
3149	Other textile product mills	_	28	7	867	28 082	604	1 055	11 499	66 504	82 984	153 739	3 433
31491 314911	Textile bag and canvas mills Textile bag mills	3	18 4	3	200 110	3 678 1 328	174 106	264 142	2 685 1 166	6 752 2 813	4 430 1 615	10 511 3 754	D D
31499 314991	All other textile product mills Rope, cordage, and twine	-	10	2 4	667	24 404	430	791	8 814	59 752	78 554	143 228	D
314999	mills	3	9	1	e c	D D	D D	D D	D D	D D	D D	D D	D D
315	Apparel manufacturing	r2	63	23	1 645	34 976	1 346	2 424	23 767	<sup>r</sup> 68 907	84 896	r147 130	1 153
3151	Apparel knitting mills	_	1	1	е	D	D	D	D	D	D	D	D
31511 315119	Hosiery and sock mills Other hosiery and sock mills .	_ _	1 1	1 1	e e	D D	D D	D D	D D	D D	D D	D D	D D
3152	Cut and sew apparel manufacturing	_	40	16	f	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	2	23	4	221	4 069	183	317	2 631	13 858	4 643	18 598	D
315212	cut and sew apparel	9	19	3		. 555 D	D	D	D 50.	D	D	D	28
31522	contractors	-	5	5	c c	D	D	D	D	D	D	D	20 D
315228	Men's and boys' cut and sew other outerwear		4	4	183	2 783	177	264	2 587	12 807	6 485	19 373	D
31523	manufacturing Women's and girls' cut and sew apparel manufacturing	1	6	4	163 C	2 763 D	D	264 D	2 367 D	12 807 D	0 405 D	19 3/3 D	137
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear												
31529	manufacturing Other cut and sew apparel	_	1	1	С	D	D	D	D	D	D	D	D
315299	manufacturing	_	6	5 5	362 362	6 963 6 963	300 300	585 585	5 401 5 401	15 291 15 291	5 857 5 857	20 737 20 737	D D
3159	Apparel accessories and other apparel manufacturing	<sup>1</sup> 7	22	6	е	0 303 D	D	D	D 401	13 231 D	J 037	20 737 D	97
31599	Apparel accessories and other												
315991	apparel manufacturing	'7 '9	22	6	e c	D D	D D	D D	D D	D D	D D	D D	97 D
315992	Glove and mitten manufacturing	2	6	3	187	3 759	124	236	1 784	4 832	6 063	11 062	79
315999	Other apparel accessories and other apparel manufacturing	5	14	2	113	2 508	85	163	1 380	3 930	3 897	8 613	18
316	Leather and allied product manufacturing	_	10	5	f	D	D	D	D	D	D	D	D
3161	Leather and hide tanning and finishing	_	5	1	С	D	D	D	D	D	D	D	D
31611	Leather and hide tanning and finishing	_	5	1	С	D	D	D	D	D	D	D	D
316110	Leather and hide tanning and finishing	_	5	1	С	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing	_	5	4	е	D	D	D	D	D	D	D	D
31699 316991	Other leather and allied product manufacturing Luggage manufacturing	=	5 3	4	e 267	D 6 306	D 205	D 435	D 4 353	D 13 585	D 13 929	D 27 680	D D

terms,	and geographical definitions, see note at	end			ation on geo	graphic areas t	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ols, see introduct	tory text]
			A establis	.II nments <sup>2</sup>	All em	ployees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA—Con.												
321	Wood product manufacturing	-	186	56	10 964	385 820	8 166	15 938	233 372	818 835	652 682	1 458 510	53 180
3211	Sawmills and wood preservation .	3	33	7	406	11 649	320	664	8 423	18 815	44 206	63 473	1 775
32111	Sawmills and wood	3	33	7	406	11 649	320	664	8 423	18 815	44 206	63 473	1 775
321113	preservation	3	27	7	379	10 907	300	626	7 937	17 318	36 350	54 229	1 568
3212	Veneer, plywood, and engineered wood product manufacturing	1	20	14	909	27 464	685	1 445	16 830	79 733	70 834	150 362	3 141
32121	Veneer, plywood, and engineered wood product manufacturing	1	20	14	909	27 464	685	1 445	16 830	79 733	70 834	150 362	3 141
321214 321219	Truss manufacturing Reconstituted wood product	i	14	11	755	22 937	544	1 116	13 165	51 651	51 232	103 060	D D
	manufacturing	-	2	2	С	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	_	133	35	9 649	346 707	7 161	13 829	208 119	720 287	537 642	1 244 675	48 264
32191	Millwork	_	35	16	8 125	307 145	5 899	11 332	180 052	646 648	426 980	1 061 066	46 208
321911 321912	Wood window and door manufacturing Cut stock, resawing lumber,	_	15	11	7 819	299 381	5 640	10 793	174 168	629 741	396 951	1 013 005	44 065
321912	and planing	1	10	4	241	5 996	200	423	4 426	14 122	25 005	40 307	D
321920	manufacturing	3	62	13	851	22 054	741	1 477	17 202	21 348	51 526	72 787	1 226
32199	manufacturing	3	62	13	851	22 054	741	1 477	17 202	21 348	51 526	72 787	1 226
321992	manufacturing  Prefabricated wood building	-	36	6	673	17 508	521	1 020	10 865	52 291	59 136	110 822	830
321999	manufacturing	_	12	3	387	10 190	317	614	6 458	36 467	46 643	82 703	D
	product manufacturing	-	21	3	е	D	D	D	D	D	D	D	254
322	Paper manufacturing	_	46	32	4 186	152 479	3 303	6 553	105 553	693 929	650 470	1 346 250	30 803
3221	Pulp, paper, and paperboard mills	_	4	3	289	11 844	234	346	6 889	67 332	58 991	126 067	D
32213 322130	Paperboard mills	-	2 2	2 2	c c	D D	D D	D D	D D	D D	D D	D D	D D
3222	Converted paper product manufacturing	-	42	29	3 897	140 635	3 069	6 207	98 664	626 597	591 479	1 220 183	D
32221	Paperboard container manufacturing	_	20	16	1 722	61 989	1 286	2 675	40 044	148 779	300 223	448 410	D
322211	Corrugated and solid fiber box manufacturing	_	14	12	1 316	51 551	1 022	2 251	34 027	120 250	272 714	392 792	5 065
322213	Setup paperboard box manufacturing	1	2	1	С	D	D	D	D	D	D	D	D
322215 32222	Nonfolding sanitary food container manufacturing Paper bag and coated and	_	1	1	С	D	D	D	D	D	D	D	D
322222	treated paper manufacturing Coated and laminated paper	-	11	8	1 610	59 899	1 310	2 608	43 091	448 649	261 332	712 565	21 471
322223	manufacturing Plastics, foil, and coated	-	6	3	f	D	D	D	D	D	D	D	D
322224	paper bag manufacturing Uncoated paper and multiwall	-	1	1	С	D	D	D	D	D	D	D	D
32223	bag manufacturing Stationery product	1	2	2	е	D	D	D	D	D	D	D	D
322232	manufacturing Envelope manufacturing	5 5	6 6	4 4	514 514	17 235 17 235	427 427	858 858	14 371 14 371	25 475 25 475	27 118 27 118	52 749 52 749	670 670
323	Printing and related support activities	1	366	97	9 076	291 050	6 467	11 614	182 349	726 084	489 914	1 218 084	49 452
3231	Printing and related support activities	1	366	97	9 076	291 050	6 467	11 614	182 349	726 084	489 914	1 218 084	49 452
32311 323110	Printing Commercial lithographic	1	335	89	8 584	274 738	6 056	10 810	170 499	692 003	473 821	1 167 460	47 515
323111 323112	printing	7	157 4	51 2	4 147 e	144 589 D	3 027 D	5 516 D	89 771 D	333 955 D	241 322 D	573 303 D	20 609 D
323113 323114 323115 323116	printing Commercial screen printing. Quick printing. Digital printing Manifold business forms	1 1 2 3	6 50 71 8	3 11 3 3	135 851 549 370	5 093 22 784 12 639 11 320	117 557 344 216	237 815 502 355	4 087 11 555 7 376 6 049	8 914 52 160 29 845 25 859	8 651 45 055 11 202 9 949	17 832 98 549 41 017 35 865	380 3 128 1 090 1 802
323117 32312	printing  Books printing  Support activities for printing	- 6	12 9 31	10 5 8	1 122 850 492	35 096 26 809 16 312	651 715 411	1 268 1 538 804	19 390 22 062 11 850	139 206 76 455 34 081	93 606 42 316 16 093	234 025 118 062 50 624	4 073 D 1 937
323121 323122	Tradebinding and related work	6	10 21	5 3	306 186	8 886 7 426	256 155	504 300	6 549 5 301	18 130 15 951	13 036 3 057	31 547 19 077	1 559 378
324	Petroleum and coal products manufacturing	-	13	3	153	6 099	106	207	2 964	33 141	64 061	94 122	1 374
3241	Petroleum and coal products manufacturing	_	13	3	153	6 099	106	207	2 964	33 141	64 061	94 122	1 374

		Cilu			allon on geog	grapriic areas i	ollowed by ,	3cc Append	iix D. T OI IIIee	illing of abbrevia	tilons and symbo	713, 366 ITHOUGE	lory text]
			A establish	II hments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures
			Total	more	Number	(\$1,000)	Number .	(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
	IOWA—Con.												
325	Chemical manufacturing	_	139 30	49 9	6 664 1 022	302 033	4 171	8 742 1 018	169 023	5 110 519	2 603 797	7 668 764	106 825 D
3251 32513	Basic chemical manufacturing  Synthetic dye and pigment	-	30	9	1 022	52 812	513	1 018	22 218	387 786	159 750	541 416	U
325132	manufacturing	-	1	1	С	D	D	D	D	D	D	D	D
32518	pigment manufacturing Other basic inorganic chemical	-	1	1	С	D	D	D	D	D	D	D	D
	manufacturing	-	5	3	204	10 882	123	281	5 835	141 234	27 876	168 701	1 540
325188	All other basic inorganic chemical manufacturing	-	5	3	204	10 882	123	281	5 835	141 234	27 876	168 701	1 540
32519	Other basic organic chemical manufacturing	1	15	4	646	33 814	338	628	14 759	209 704	110 249	315 118	D
325199	All other basic organic chemical manufacturing	-	5	4	579	30 813	290	522	12 838	199 916	74 806	269 706	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber												
325211	manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
	manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical												
00504	manufacturing	_	25	10	1 232	56 137	858	1 699	34 747	1 236 635	606 624	1 853 664 231 346	16 366
32531 325311	Fertilizer manufacturing Nitrogenous fertilizer	-	16	5	414	17 893	263	588	10 739	64 399	158 355		8 907
325314	manufacturing Fertilizer (mixing only)	_	5	3	190	10 029	134	313	6 693	42 761	96 895	149 898	D
32532	manufacturing Pesticide and other agricultural	_	8	2	С	D	D	D	D	D	D	D	D
325320	chemical manufacturing Pesticide and other agricultural chemical	_	9	5	818	38 244	595	1 111	24 008	1 172 236	448 269	1 622 318	7 459
	manufacturing	_	9	5	818	38 244	595	1 111	24 008	1 172 236	448 269	1 622 318	7 459
3254	Pharmaceutical and medicine manufacturing	-	35	14	2 314	89 746	1 218	2 839	41 830	458 378	243 397	685 272	35 386
32541	Pharmaceutical and medicine manufacturing	-	35	14	2 314	89 746	1 218	2 839	41 830	458 378	243 397	685 272	35 386
325411	Medicinal and botanical manufacturing Pharmaceutical preparation	1	8	3	267	13 681	133	285	6 436	84 523	61 717	145 116	10 972
325412	Pharmaceutical preparation manufacturing Biological product (except	3	13	4	284	12 446	140	275	5 200	51 435	32 454	89 570	2 622
325414	Biological product (except diagnostic) manufacturing	_	11	6	1 713	61 191	900	2 188	28 182	317 274	148 286	444 007	21 652
3255	Paint, coating, and adhesive manufacturing	6	15	5	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	6	13	5	е	D	D	D	D	D	D	D	1 051
325510	Paint and coating manufacturing	6	13	5	e	D	D	D	D	D	D	D	1 051
3256	Soap, cleaning compound, and toilet preparation manufacturing.	_	16	4	f	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing	_	6	2	f	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing	_	6	2	· ,	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	_	17	6	f	D	D	D	D	D	D	D	D
32599	All other chemical product and					_	_	_	_		-	_	
325992	preparation manufacturing Photographic film, paper,	-	13	5	f	D	D	D	D	D	D	D	11 768
325998	plate, and chemical manufacturing All other miscellaneous	_	2	1	С	D	D	D	D	D	D	D	D
	chemical product and preparation manufacturing .	_	7	4	494	23 959	337	719	13 317	104 551	109 859	213 027	D
326	Plastics and rubber products manufacturing	1	188	103	14 609	477 552	12 087	23 910	363 637	1 147 675	1 232 805	2 390 476	120 244
3261	Plastics product manufacturing	1	151	86	10 397	314 000	8 632	17 261	236 411	799 436	838 403	1 642 354	102 736
32611	Plastics packaging materials and unlaminated film and												
326111 326112	sheet manufacturing	2 -	21 4	9	1 760 e	70 006 D	1 419 D	2 725 D	51 683 D	192 651 D	163 170 D	356 240 D	26 336 D
326113	sheet (including laminated) manufacturing Unlaminated plastics film and	_	2	2	е	D	D	D	D	D	D	D	D
32612	sheet (except packaging) manufacturing Plastics pipe, pipe fitting, and unlaminated profile shape	4	15	6	1 097	39 229	854	1 558	26 660	120 210	74 937	194 632	D
326121	manufacturing	-	17	8	651	21 343	538	1 173	16 333	62 083	86 040	149 290	D
326122	shape manufacturing Plastics pipe and pipe fitting	1	6	1	200	6 085	158	365	4 099	8 168	13 411	21 802	330
020122	manufacturing	_	11	7	451	15 258	380	808	12 234	53 915	72 629	127 488	D

# $\label{table 1.} \begin{tabular}{ll} \textbf{Table 1.} & \textbf{Industry Statistics for the State: 2002} - \textbf{Con.} \\ \end{tabular}$

terms, a	and geographical definitions, see note at	ena		di Ji						ning of apprevia	alions and symbo	is, see introduct	lory text]
			establis	hments <sup>2</sup>	All em	ployees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA—Con.												
326	Plastics and rubber products												
3261	manufacturing—Con. Plastics product manufacturing— Con.												
32613	Laminated plastics plate, sheet, (except packaging), and												
326130	shape manufacturing Laminated plastics plate,	-	5	1	113	4 304	87	172	2 914	11 037	13 112	24 250	818
00044	sheet, (except packaging), and shape manufacturing	-	5	1	113	4 304	87	172	2 914	11 037	13 112	24 250	818
32614 326140	Polystyrene foam product manufacturing	-	8	6	1 140	34 302	781	1 685	24 991	49 478	88 632	138 209	7 732
32615	Polystyrene foam product manufacturing Urethane and other foam	-	8	6	1 140	34 302	781	1 685	24 991	49 478	88 632	138 209	7 732
	product (except polystyrene) manufacturing	6	5	2	164	4 637	141	277	3 520	11 113	15 756	26 860	D
326150	Urethane and other foam product (except polystyrene)												
32616	manufacturing	6 2	5 8	2 6	164 525	4 637 18 513	141 464	277 985	3 520 14 881	11 113 30 469	15 756 88 919	26 860 122 005	D 31 857
326160 32619	Plastics bottle manufacturing Other plastics product	2	8	6	525	18 513	464	985	14 881	30 469	88 919	122 005	31 857
326191	manufacturing  Plastics plumbing fixture	1	87	54	6 044	160 895	5 202	10 244	122 089	442 605	382 774	825 500	D
326199	manufacturing	-	5	4	204	5 332	148	307	3 458	15 444	12 155	27 750	D
	manufacturing	1	82	50	5 840	155 563	5 054	9 937	118 631	427 161	370 619	797 750	30 886
3262	Rubber product manufacturing	-	37	17	4 212	163 552	3 455	6 649	127 226	348 239	394 402	748 122	17 508
32621 326211	Tire manufacturing	_	18 7	7	2 504 2 396	106 380 103 151	2 043 1 976	3 710 3 580	84 084 82 405	207 242 200 195	247 398 236 711	459 115 441 532	12 224 12 019
326212 32622	Tire retreading	3	11	5 2	108	3 229	67	130	1 679	7 047	10 687	17 583	205
326220	belting manufacturing Rubber and plastics hoses	-	7	5	597	19 195	508	1 019	14 840	42 799	79 150	120 894	891
32629	and belting manufacturing Other rubber product	-	7	5	597	19 195	508	1 019	14 840	42 799	79 150	120 894	891
326291	manufacturing Rubber product	-	12	5	1 111	37 977	904	1 920	28 302	98 198	67 854	168 113	4 393
	manufacturing for mechanical use	-	6	3	1 024	35 300	839	1 782	26 515	92 500	62 911	157 558	4 075
327	Nonmetallic mineral product manufacturing	_	330	80	6 929	236 241	5 638	11 283	178 062	977 447	658 240	1 627 665	63 410
3271	Clay product and refractory manufacturing	_	14	3	е	D	D	D	D	D	D	D	722
32712	Clay building material and		_	3	055	7 535	017	470	5 997	20 058	12 721	30 088	714
327121	refractories manufacturing Brick and structural clay tile manufacturing	_	7	3	255 c	7 535 D	217 D	478 D	5 997 D	20 036 D	12 /21 D	30 066 D	714 D
3272	Glass and glass product												
	manufacturing	-	19	8	1 020	32 542	876	1 767	25 645	152 840	111 929	261 712	5 164
32721 327211	Glass and glass product manufacturing Flat glass manufacturing	-	19 1	8	1 020 e	32 542 D	876 D	1 767 D	25 645 D	152 840 D	111 929	261 712 D	5 164 D
327215	Glass product manufacturing made of purchased glass	_	14	7	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	266	59	4 200	139 225	3 352	6 440	103 585	446 148	331 229	776 114	40 035
32731 327310	Cement manufacturing Cement manufacturing	-	7 7	3	465 465	21 488 21 488	361 361	721 721	15 338 15 338	142 131 142 131	73 656 73 656	210 575 210 575	14 308 14 308
32732	Ready-mix concrete manufacturing	2	177	32	2 146	68 159	1 801	3 241	54 700	165 410	173 070	339 094	17 548
327320	Ready-mix concrete manufacturing	2	177	32	2 146	68 159	1 801	3 241	54 700	165 410	173 070	339 094	17 548
32733	Concrete pipe, brick, and block manufacturing	1	22	11	377	12 769	267	524	7 695	41 612	33 148	75 349	2 760
327331 327332	Concrete block and brick manufacturing	2	14	5	С	D	D	D	D	D	D	D	D
32739	Concrete pipe manufacturing Other concrete product	-	8	6	С	D	D	D	D	D	D	D	D
327390	manufacturing Other concrete product	-	60	13	1 212	36 809	923	1 954	25 852	96 995	51 355	151 096	5 419
	manufacturing	-	60	13	1 212	36 809	923	1 954	25 852	96 995	51 355	151 096	5 419
3274 32742	Lime and gypsum product manufacturing	_	8	5	f	D	D	D	D	D	D	D	10 715
32742	Gypsum product manufacturing Gypsum product	-	6	5	725	31 474	599	1 409	24 966	149 992	133 679	282 348	D
32, 420	manufacturing	l –	6	5	725	31 474	599	1 409	24 966	149 992	133 679	282 348	D

	l	I	T table.	01 111101111	lation on goo	grapino arcao	ionowed by ,	occ / tppciio	iix B. Tormoo	lining of approvid	anono ana symbo	710, 000 IIII 0000	- Cory toxt
			establisl	ll hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA-Con.												
327	Nonmetallic mineral product												
3279	manufacturing—Con. Other nonmetallic mineral product			_		04.000		4 400	40.0=0	005 004	07.004	070 000	0 == 4
32791	manufacturing  Abrasive product	_	23	5	682	24 268	555	1 128	16 978	205 304	67 031	272 622	6 774
327910	manufacturing Abrasive product	-	3	2	f	D	D	D	D	D	D	D	D
32799	manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
	product manufacturing	3	20	3	С	D	D	D	D	D	D	D	D
331 3311	Primary metal manufacturing  Iron and steel mills and ferroalloy	-	69	38	8 364	361 602	6 569	13 809	265 962	1 004 866	1 504 350	2 436 157	106 345
	manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	_	6	3	f	D	D	D	D.	D	D	D	D
331111 3312	Iron and steel mills Steel product manufacturing from	_	4	2	T I	D	D	D	D	D	D	D	D
0012	purchased steel	5	4	3	351	10 398	289	633	7 928	20 588	17 740	38 595	625
33122	Rolling and drawing of purchased steel	5	4	3	351	10 398	289	633	7 928	20 588	17 740	38 595	625
331222	Steel wire drawing	5	4	3	351	10 398	289	633	7 928	20 588	17 740	38 595	625
3313	Alumina and aluminum production and processing	-	5	4	h	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing	_	5	4	h	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	_	3	3	h	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and												
	processing	-	7	2	е	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying	_	1	1	е	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, and extruding	_	1	1	е	D	D	D	D	D	D	D	D
3315	Foundries	_	47	26	4 075	147 309	3 262	6 862	107 039	354 570	247 964	603 657	19 664
33151 331511	Ferrous metal foundries	-	20 16	15 13	2 579 1 882	101 850 73 798	2 046 1 455	4 298 3 053	74 134 50 475	251 936 168 069	183 709 139 493	437 839 311 709	14 305 D
331513	Steel foundries (except investment)	_	3	2	f	D	D	D	D	D	D	D	D
33152 331521	Nonferrous metal foundries Aluminum die-casting	1	27	11	1 496	45 459	1 216	2 564	32 905	102 634	64 255	165 818	5 359
331522	foundries	2	5	5	395	11 777	325	715	8 402	27 070	26 072	53 064	1 702
331524	foundriesAluminum foundries (except	-	4	2	421	10 983	354	682	7 470	24 463	14 959	39 774	D
331528	die-casting) Other nonferrous foundries	1	12	3	360	11 097	309	719	8 303	27 689	17 110	44 099	2 673
	(except die-casting)	-	3	1	е	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	643	198	22 252	754 945	16 178	31 381	479 073	1 874 005	1 469 355	3 352 947	104 763
3321	Forging and stamping	5	26	11	1 464	50 660	1 213	2 578	39 241	118 031	86 135	205 451	8 824
33211 332111	Forging and stamping Iron and steel forging	5	26 7	11 3	1 464 483	50 660 17 147	1 213 398	2 578 888	39 241 11 780	118 031 29 407	86 135 33 547	205 451 63 552	8 824 D
332114 332116	Custom roll forming Metal stamping	9	4	3 5	516 e	18 625 D	437 D	944 D	15 282 D	60 778 D	26 608 D	87 769 D	D D
3322	Cutlery and handtool manufacturing	3	21	4	611	23 375	426	787	14 176	63 869	32 202	94 945	D
33221	Cutlery and handtool												
332211	manufacturing Cutlery and flatware (except	3	21	4	611	23 375	426	787	14 176	63 869	32 202	94 945	D
332212	precious) manufacturing Hand and edge tool	-	3	1	C 450	D	D	D	D	D 40 004	D 745	D	138
3323	manufacturing  Architectural and structural metals	3	14	3	458	18 204	325	592	10 629	49 001	26 715	75 371	3 569
	manufacturing	1	153	46	5 656	183 411	3 944	7 426	111 821	476 377	446 420	925 300	19 474
33231	Plate work and fabricated structural product				0.400	07.400				450.004	407.040	204 200	0.040
332311	manufacturing Prefabricated metal building and component	2	85	23	2 130	67 189	1 463	2 882	38 841	158 281	197 846	361 203	3 840
332312	manufacturing Fabricated structural metal	1	13	5	721	18 869	479	877	10 117	69 167	63 800	131 916	810
332313	manufacturing Plate work manufacturing	2	58 14	15 3	1 187 222	40 806 7 514	823 161	1 671 334	23 622 5 102	71 349 17 765	125 051 8 995	202 194 27 093	2 499 531
33232	Ornamental and architectural metal products					440 == :		. =		046	0.40 ==	504 55	. <u>.</u>
332321	manufacturing	_	68	23	3 526	116 222	2 481	4 544	72 980 F2 216	318 096	248 574	564 097	15 634
332322	manufacturing Sheet metal work manufacturing	1	13 28	10	2 513 712	83 822 23 468	1 737 504	3 187 895	52 216 14 499	253 829 43 934	182 781 48 227	433 737 92 513	13 935 1 353
332323	Ornamental and architectural metal work manufacturing	2		5	301	8 932	240	462	6 265	20 333	17 566	37 847	346
		_	_,	3	0011	0 002	2-10	702	0 200	_5 555	5501	J. 0-11	0-10

terms,	and geographical definitions, see note at	end			ation on geog	graphic areas	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			establisl	.II hments <sup>2</sup>	All em	ployees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA—Con.												
332 3324	Fabricated metal product manufacturing—Con. Boiler, tank, and shipping container manufacturing	_	21	13	1 606	58 841	1 319	2 657	43 540	271 549	228 812	504 038	21 575
33242	Metal tank (heavy gauge) manufacturing	_	10	6	643	24 215	495	1 014	17 459	147 877	50 030	199 489	D
332420	Metal tank (heavy gauge) manufacturing	_	10	6	643	24 215	495	1 014	17 459	147 877	50 030	199 489	D
33243	Metal can, box, and other metal container (light gauge) manufacturing		8	5	872	31 170	758	1 507	23 973	115 807	173 174	291 058	D
332431 332439	Metal can manufacturing Other metal container manufacturing	<u>-</u>	2 6	3	c f	31 170 D	730 D	D D	23 973 D	D D	173 174 D	291 030 D	D D
3325	Hardware manufacturing	_	10	3	720	21 025	499	959	11 053	41 979	57 530	99 529	2 276
33251 332510	Hardware manufacturing Hardware manufacturing	_ _	10 10	3	720 720	21 025 21 025	499 499	959 959	11 053 11 053	41 979 41 979	57 530 57 530	99 529 99 529	2 276 2 276
3326	Spring and wire product manufacturing	1	19	6	665	17 269	582	1 296	13 426	35 298	35 077	70 389	3 048
33261	Spring and wire product	_	40		205	47.000	500	4 000	40.400	05.000	05.077	70,000	0.040
332612	manufacturing Spring (light gauge) manufacturing	1	19	6	665 c	17 269 D	582 D	1 296 D	13 426 D	35 298 D	35 077 D	70 389 D	3 048 D
332618	Other fabricated wire product manufacturing	2	17	5	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	276	71	4 852	163 098	3 826	7 375	114 658	346 469	195 352	542 944	18 193
33271	Machine shops	2	235	45	2 903	99 430	2 181	4 097	66 041	196 105	110 668	305 339	12 895
332710 33272	Machine shops Turned product and screw, nut, and bolt manufacturing	1	235 41	45 26	2 903 1 949	99 430 63 668	2 181 1 645	4 097 3 278	66 041 48 617	196 105 150 364	110 668 84 684	305 339 237 605	12 895 5 298
332721	Precision turned product manufacturing	3	36	22	1 317	44 489	1 064	2 071	32 387	90 720	53 080	144 500	4 128
332722	Bolt, nut, screw, rivet, and washer manufacturing	_	5	4	632	19 179	581	1 207	16 230	59 644	31 604	93 105	1 170
3328	Coating, engraving, heat treating, and allied activities	1	41	13	875	23 378	701	1 198	16 551	59 201	21 896	78 986	D
33281 332811 332812	Coating, engraving, heat treating, and allied activities Metal heat treating	1 -	41 7	13 4	875 c	23 378 D	701 D	1 198 D	16 551 D	59 201 D	21 896 D	78 986 D	D D
332813	silverware), and allied services to manufacturers Electroplating, plating, polishing, anodizing, and coloring	- 5	18	7	545 c	14 218 D	441 D	788 D	10 288 D	38 175 D	15 598 D	53 046 D	2 631 1 100
3329	Other fabricated metal product manufacturing	_	76	31	5 803	213 888	3 668	7 105	114 607	461 232	365 931	831 365	23 495
33291	Metal valve manufacturing	_	16	12	2 925	127 857	1 658	3 369	55 801	273 294	189 995	465 718	9 767
332911 332912	Industrial valve manufacturing Fluid power valve and hose	_	9	8	2 607	118 509	1 398	2 912	49 500	258 135	180 671	444 643	8 965
332919	fitting manufacturing Other metal valve and pipe	1	4	2	145	5 130	105	205	3 090	1 662	1 352	3 542	D
33299	fitting manufacturing All other fabricated metal	1	3	2	173	4 218	155	252	3 211	13 497	7 972	17 533	D
332991	product manufacturing Ball and roller bearing	_	60	19	2 878	86 031	2 010	3 736	58 806	187 938	175 936	365 647	13 728
332993	manufacturing Ammunition (except small arms) manufacturing	_	1	1	e f	D D	D D	D D	D D	D D	D D	D D	D D
332997	Industrial pattern manufacturing	_	10	3	140	7 281	116	238	5 833	11 788	3 881	15 570	D
332999	All other miscellaneous fabricated metal product manufacturing	_	40	12	1 332	32 801	1 085	1 916	24 200	90 977	90 667	181 559	9 109
333	Machinery manufacturing	_	412	195	31 473	1 329 020	20 454	39 260	745 827	5 587 509	4 759 120	10 392 410	202 958
3331	Agriculture, construction, and mining machinery manufacturing	_	124	70	15 858	706 785	10 356	20 495	422 424	3 514 398	3 152 073	6 693 045	125 247
33311	Agricultural implement			40		,		_				,	00.054
333111	manufacturing Farm machinery and equipment manufacturing	_	90	49 48	8 532	D 399 409	D 6 091	D 12 820	D 254 860	D 2 085 421	D 1 644 322	D 3 731 752	93 051 93 051
33312	Construction machinery manufacturing	_	32	20	7 097	299 919	4 107	7 411	162 789	1 411 734	1 497 211	2 934 906	93 031 D
333120	Construction machinery manufacturing	_	32	20	7 097	299 919	4 107	7 411	162 789	1 411 734	1 497 211	2 934 906	D
33313	Mining and oil and gas field machinery manufacturing	-	2	1	С	D	D	D	D	D	D	D	D
333131	Mining machinery and equipment manufacturing	_	1	1	c	D	D	D	D	D	D	D	D

	and geographical delimitions, see note at	Cilu	T table.	01 111101111	ıalıdır dir gedi	grapriic areas	ollowed by ,	3cc Append	iix D. TOTTIICE	illing of abbrevie	and symbo	713, 366 111110000	lory text]
			establis	ll hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA-Con.												
333 3332	Machinery manufacturing—Con. Industrial machinery manufacturing	_	49	24	1 698	76 990	948	1 826	33 767	167 970	125 270	292 799	11 904
33322	Plastics and rubber industry		40		1 000	70 000	040	1 020	00 707			202 700	11 00-1
333220	machinery manufacturing Plastics and rubber industry	1	6	2	С	D	D	D	D	D	D	D	195
33329	machinery manufacturing Other industrial machinery	1	6	2	С	D	D	D	D	D	D	D	195
333294	manufacturing	-	42	22	1 575	71 502	872	1 665	30 777	153 999	106 918	259 863	D
333298	manufacturing	1	18 16	12 8	863 608	41 280 26 311	474 340	871 696	17 374 11 572	94 529 54 839	71 579 31 415	163 829 87 131	3 454 8 120
3333	Commercial and service industry machinery manufacturing	_	33	14	2 363	78 290	1 420	2 383	34 552	189 188	194 859	370 696	18 296
33331	Commercial and service industry machinery manufacturing	_	33	14	2 363	78 290	1 420	2 383	34 552	189 188	194 859	370 696	18 296
333311	Automatic vending machine	_	1	1	e	D	D	D	D	D	D	D	D
333312	manufacturing	_	1	1	c	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing	_	28	12	1 863	64 476	1 064	1 736	26 457	146 915	160 304	299 824	D
3334	Ventilation, heating, air- conditioning, and commercial refrigeration equipment manufacturing		21	13	2 716	96 957	2 129	4 267	67 666	856 486	448 618	1 304 235	7 083
33341	Ventilation, heating, air- conditioning, and commercial		21	13	2 710	90 937	2 129	4 207	07 000	030 400	440 010	1 304 233	7 003
333414	refrigeration equipment manufacturing	_	21	13	2 716	96 957	2 129	4 267	67 666	856 486	448 618	1 304 235	7 083
333415	manufacturing	_	4	2	f	D	D	D	D	D	D	D	D
3335	manufacturing  Metalworking machinery	2	11 85	9 26	1 924 1 806	70 566 69 406	1 604 1 310	3 177 2 257	52 808 41 947	770 209 134 684	389 575 64 664	1 159 030 200 887	4 898 7 612
33351	manufacturing  Metalworking machinery manufacturing	2	85	26	1 806	69 406	1 310	2 257	41 947	134 684	64 664	200 887	7 612
333511	Industrial mold	_	20	7	494	17 758	393	573	11 061	35 677	11 152	46 158	2 324
333512	manufacturing Machine tool (metal cutting types) manufacturing	6	3	2	114	4 333	69	98	1 931	11 160	5 400	16 738	2 324 D
333514	types) manufacturing Special die and tool, die set, jig, and fixture			_			00	00	1 551	11 100	0 400		5
333515	manufacturing Cutting tool and machine tool	2	38	10	518	21 118	410	804	15 871	34 119	14 577	49 240	2 866
333518	accessory manufacturing Other metalworking machinery manufacturing	3	18	5 1	462 c	16 358 D	316 D	533 D	9 064 D	32 886 D	21 729 D	55 620 D	1 573 D
3336	Engine, turbine, and power transmission equipment manufacturing	_	8	7	1 363	78 864	685	1 368	32 662	208 158	329 391	549 240	12 030
33361	Engine, turbine, and power transmission equipment												
333611	manufacturing Turbine and turbine generator set units	_	8	7	1 363	78 864	685	1 368	32 662	208 158	329 391	549 240	12 030
333612	manufacturing Speed changer, industrial high-speed drive, and gear	9	1	1	С	D	D	D	D	D	D	D	D
333618	manufacturing Other engine equipment manufacturing	_	3	3	241 g	8 263 D	196 D	388 D	6 435 D	39 399 D	8 706 D	48 595 D	D D
3339	Other general purpose machinery manufacturing	_	92	41	5 669	221 728	3 606	6 664	112 809	516 625	444 245	981 508	20 786
33391	Pump and compressor manufacturing	_	10	3	534	24 399	298	606	11 316	71 544	31 186	103 641	2 005
333911	Pump and pumping equipment manufacturing		9	3	554 f	24 399 D	296 D	D	D D	71 344 D	31 100 D	103 641 D	2 005 D
33392	Material handling equipment	_	34	18	1 781	66 966	1 154	2 166	37 504	120 860	133 443	255 422	6 334
333921	Elevator and moving stairway manufacturing	_	4	1	173	6 962	50	111	1 374	13 658	7 581	21 453	D
333922 333923	equipment manufacturing Overhead traveling crane,	_	17	10	1 049	39 050	752	1 497	23 234	75 142	61 414	135 800	4 980
333924	hoist, and monorail system manufacturing	_	6	4	232	7 650	170	191	4 859	13 198	13 781	27 367	85
	trailer, and stacker machinery manufacturing	_	7	3	327	13 304	182	367	8 037	18 862	50 667	70 802	D

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			establis	ll hments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA-Con.												
333 3339	Machinery manufacturing—Con. Other general purpose machinery manufacturing—Con.												
33399	All other general purpose machinery manufacturing	_	48	20	3 354	130 363	2 154	3 892	63 989	324 221	279 616	622 445	12 447
333991	Power-driven handtool manufacturing	_	4	3	366	10 367	275	524	6 028	39 988	29 379	78 345	D
333992	Welding and soldering equipment manufacturing	_	3	1	С	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing Fluid power cylinder and	_	6	2	e	D	D	D	D	D	D	D	230
333995	actuator manufacturing	_	7	7	957	30 817	700	1 433	20 320	60 655	57 615	118 909	3 352
333996	Fluid power pump and motor manufacturing	_	7	4	g	D	D	D	D	D	D	D	4 837
333999	All other miscellaneous general purpose machinery manufacturing	2	18	3	206	6 152	122	178	2 721	12 704	8 166	21 040	320
334	Computer and electronic product manufacturing	-	77	30	11 662	563 870	3 838	6 003	128 830	928 812	497 168	1 751 827	35 987
3342	Communications equipment manufacturing	-	10	6	g	D	D	D	D	D	D	D	D
33422 334220	Radio and television broadcasting and wireless communications equipment manufacturing	-	7	5	1 248	47 234	809	1 797	22 487	96 117	159 382	253 357	13 520
	broadcasting and wireless communications equipment manufacturing	_	7	5	1 248	47 234	809	1 797	22 487	96 117	159 382	253 357	13 520
3344	Semiconductor and other electronic component manufacturing	1	21	10	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component												
334412	manufacturing	1	21	10	f	D	D	D	D	D	D	D	D
334413	manufacturing Semiconductor and related	5	3	2	С	D	D	D	D	D	D	D	D
334416	device manufacturing Electronic coil, transformer, and other inductor	1	4	1	С	D	D	D	D	D	D	D	82
334419	manufacturing Other electronic component manufacturing	2	7	4	e 173	D 4 850	D 138	D 192	D 3 295	D 12 191	5 919	D 21 090	D 399
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	35	14	9 608	492 649	2 465	3 227	94 526	773 332	299 516	1 396 040	D
33451	Navigational, measuring, electromedical, and control												
334511	instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	-	35	14	9 608	492 649	2 465	3 227	94 526	773 332	299 516	1 396 040	D
334513	manufacturing	-	7	6	i	D	D	D	D	D	D	D	D
334514	controlling industrial process variables Totalizing fluid meter and counting device	-	8	3	е	D	D	D	D	D	D	D	D
334519	manufacturing Other measuring and controlling device	2	3	1	С	D	D	D	D	D	D	D	D
335	manufacturing  Electrical equipment, appliance, and	-	4	3	C	D 540 540	D	D	D	D	D	D	D
3351	component manufacturing	_	40	26	11 976 e	512 540 D	8 819 D	16 357 D	318 399 D	1 212 936 D	1 605 803 D	2 823 193 D	89 049 D
33512	Lighting fixture manufacturing	_	' 1	1	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	_	8	8	i	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	_	2	2	С	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner manufacturing	_	1	1	c	D	D	D	D	D	D	D	D
33522 335222	Major appliance manufacturing. Household refrigerator and home freezer	-	6	6	i	D	D	D	D	D	D	D	D
335224	manufacturing Household laundry equipment manufacturing	-   -	3	3	g i	D D	D D	D D	D D	D D	D D	D D	D D

terrio,	T	Cilu	or table. I	OI IIIIOIIII	allon on geo	grapriic areas	, ionowed by	See Append	in D. Tormes	ining of abbrevia	allons and symble	ns, see introduc	lory text]
			A establish	ll hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA-Con.												
335 3353	Electrical equipment, appliance, and component manufacturing—Con. Electrical equipment												
33531	manufacturing  Electrical equipment	_	23	11	1 979	104 327	1 394	2 569	72 441	256 651	299 332	559 781	11 319
335312	manufacturing	-	23	11	1 979	104 327	1 394	2 569	72 441	256 651	299 332	559 781	11 319
335313	manufacturing	-	7	3	С	D	D	D	D	D	D	D	464
335314	apparatus manufacturing Relay and industrial control	-	6	3	1 451	84 542	1 029	1 947	60 082	206 758	259 423	470 859	10 087
2250	manufacturing	1	7	5	331	12 831	255	414	8 938	36 932	21 654	58 270	D
3359 33591	Other electrical equipment and component manufacturing	_	8 2	6 2	877 f	30 576 D	709 D	1 471 D	22 712 D	43 307 D	104 500 D	150 226 D	2 381 D
335911	Storage battery manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33593 335932	Wiring device manufacturing Noncurrent-carrying wiring	-	3	2	С	D	D -	D	D	D	D	D	D
336	device manufacturing Transportation equipment	_	2	2	С	D	D	D	D	D	D	D	D
	manufacturing	-	162	81	17 102	576 716	13 561	25 867	392 964	1 867 091	1 904 364	3 786 491	57 259
3362 33621	Motor vehicle body and trailer manufacturing	-	62	40	8 274	265 794	6 482	12 243	165 840	608 250	946 745	1 547 600	23 755
336211	Motor vehicle body and trailer manufacturing	-	62	40	8 274	265 794	6 482	12 243	165 840	608 250	946 745	1 547 600	23 755
336212	manufacturing Truck trailer manufacturing	_	19 20	15 11	1 452	45 372 D	1 079 D	2 255 D	30 704 D	90 789 D	164 984 D	263 926 D	D 4 199
336213 336214	Motor home manufacturing Travel trailer and camper	_	2	2	g h	D	D	D	D	D	D	D	D
0000	manufacturing	_	21	12	1 933	59 811	1 590	3 079	43 134	119 374	152 463	269 216	5 992
3363	Motor vehicle parts manufacturing	_	66	35	7 510	262 809	6 130	11 801	196 285	957 387	684 699	1 640 800	30 331
33631 336311	Motor vehicle gasoline engine and engine parts manufacturing	3	13	4	1 128	39 642	981	1 985	32 002	93 161	58 522	151 911	4 736
	ring, and valve manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
336312 33632	Gasoline engine and engine parts manufacturing Motor vehicle electrical and	7	11	3	f	D	D	D	D	D	D	D	D
336322	electronic equipment manufacturing Other motor vehicle electrical	_	15	6	1 054	36 062	879	1 880	31 397	137 674	69 086	204 548	5 312
33633	and electronic equipment manufacturing Motor vehicle steering and suspension component	_	15	6	1 054	36 062	879	1 880	31 397	137 674	69 086	204 548	5 312
336330	(except spring) manufacturing Motor vehicle steering and suspension component	_	3	2	С	D	D	D	D	D	D	D	D
33635	(except spring) manufacturing Motor vehicle transmission and	-	3	2	С	D	D	D	D	D	D	D	D
336350	power train parts manufacturing Motor vehicle transmission	_	7	5	761	34 766	640	898	28 631	203 766	115 011	320 812	D
00000	and power train parts manufacturing  Motor vehicle seating and	_	7	5	761	34 766	640	898	28 631	203 766	115 011	320 812	D
33636 336360	interior trim manufacturing Motor vehicle seating and	-	2	1	е	D	D	D	D	D	D	D	D
33637	interior trim manufacturing Motor vehicle metal stamping	_	2 9	1 7	e g	D D	D D	D D	D D	D D	D D	D D	D D
336370	Motor vehicle metal stamping	_	9	7	g	D	D	D	D	D	D	D	D
33639 336399	Other motor vehicle parts manufacturing	1	17	10	2 459	78 265	2 167	4 170	63 569	278 068	213 337	488 106	8 916
330399	All other motor vehicle parts manufacturing	1	17	10	2 459	78 265	2 167	4 170	63 569	278 068	213 337	488 106	8 916
3364	Aerospace product and parts manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	_	6	2	f f	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing	_	14	2	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing	_	14	2	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing	_	9	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	_	203	33	7 989	244 773	6 604	13 005	183 928	809 395	504 299	1 310 895	28 775

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			establisl	II nments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA—Con.					, ,		,	, , ,	, , ,	, , ,	, ,	
337	Furniture and related product												
3371	manufacturing—Con. Household and institutional												
	furniture and kitchen cabinet manufacturing	_	155	21	5 218	153 016	4 259	8 449	111 472	312 030	236 291	546 792	11 189
33711	Wood kitchen cabinet and		00			00.440	0.754	5 007	70 504	004 574	140.000	000 440	0.005
337110	countertop manufacturing Wood kitchen cabinet and countertop manufacturing	_	98 98	9	3 158 3 158	88 149 88 149	2 751 2 751	5 607 5 607	72 534 72 534	201 571 201 571	140 280 140 280	338 448 338 448	8 865 8 865
33712	Household and institutional furniture manufacturing		57	12	2 060	64 867	1 508	2 842	38 938	110 459	96 011	208 344	2 324
337121	Upholstered household furniture manufacturing		9	3	1 362	47 522	949	1 784	26 459	65 369	71 114	136 547	1 352
337122	Nonupholstered wood household furniture				1 002			1 704	20 400	00 000			
337125	manufacturing Household furniture (except	1	34	3	417	8 932	338	598	6 548	26 125	5 633	32 327	227
007107	wood and metal) manufacturing	-	5	2	С	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing	3	7	3	135	4 659	105	233	3 365	13 273	8 042	21 570	377
3372	Office furniture (including fixtures) manufacturing	_	39	11	2 646	87 261	2 260	4 402	69 872	483 859	256 358	738 937	17 297
33721	Office furniture (including fixtures) manufacturing	_	39	11	2 646	87 261	2 260	4 402	69 872	483 859	256 358	738 937	17 297
337211	Wood office furniture manufacturing	_	7	3	2 040 f	0/ 201 D	2 200 D	T 402	D 03 072	400 000 D	D 230 330	730 307 D	17 237 D
337212	Custom architectural woodwork and millwork												
337214	manufacturing Office furniture (except wood)	-	19	4	е	D	D	D	D	D	D	D	D
337215	manufacturing Showcase, partition,	-	3	3	g	D	D	D	D	D	D	D	D
	shelving, and locker manufacturing	2	10	1	С	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing	2	9	1	125	4 496	85	154	2 584	13 506	11 650	25 166	289
33791 337910	Mattress manufacturing	1	6	1	117 117	4 292 4 292	79 79	143 143	2 458 2 458	12 955 12 955	11 092 11 092	24 057 24 057	D D
339	Miscellaneous manufacturing	1	274	58	5 365	173 367	3 816	7 379	99 024	435 230	282 479	721 478	24 620
3391	Medical equipment and supplies manufacturing	2	96	13	1 490	45 402	1 036	1 978	25 154	113 279	56 290	168 361	4 829
33911	Medical equipment and	0		40	4 400	45, 400	4 000	4 070	05.454	440.070	50,000	400.004	4 000
339111	supplies manufacturing Laboratory apparatus and	2	96	13 1	1 490	45 402 D	1 036 D	1 978 D	25 154 D	113 279 D	56 290 D	168 361 D	4 829 D
339112	furniture manufacturing Surgical and medical instrument manufacturing	5	1 8	3	9 364	10 013	305	621	6 505	27 017	12 662	39 603	788
339113	Surgical appliance and supplies manufacturing	5	13	3	126	4 208	93	182	1 765	9 413	4 754	14 149	612
339116	Dental laboratories	2	62	3	425	11 501	312	553	8 051	20 232	4 643	24 942	480
3399	Other miscellaneous manufacturing	1	178	45	3 875	127 965	2 780	5 401	73 870	321 951	226 189	553 117	19 791
33991	Jewelry and silverware manufacturing	2	14	2	С	D	D	D	D	D	D	D	81
33992	Sporting and athletic goods manufacturing	4	25	9	687	21 579	458	928	9 734	58 543	48 406	106 341	2 692
339920	Sporting and athletic goods manufacturing	4	25	9	687	21 579	458	928	9 734	58 543	48 406	106 341	2 692
33993	Doll, toy, and game manufacturing	4	11	2	С	D	D	D	D	D	D	D	200
339932	Game, toy, and children's vehicle manufacturing	4	10	2	137	3 638	94	209	2 056	9 521	7 937	18 038	200
33994 339941	Office supplies (except paper) manufacturing	-	8	2	193	6 975	115	218	2 832	9 034	5 549	16 053	D
33995	Pen and mechanical pencil manufacturing Sign manufacturing	_	1 53	1 10	c 848	D 28 008	D 552	D 1 112	D 13 751	D 53 395	D 33 691	D 87 599	D 4 193
339950 33999	Sign manufacturing All other miscellaneous	-	53 53	10	848	28 008	552	1 112	13 751	53 395	33 691	87 599	4 193
339991	manufacturing	-	67	20	1 894	64 651	1 472	2 759	43 960	183 886	128 067	314 869	D
339994	device manufacturing Broom, brush, and mop	-	4	3	339	10 538	266	561	7 284	22 820	20 264	43 303	1 122
339999	manufacturing	-	4	2	f	D 530	D 560	D 1 090	D 12 900	D 51 427	D 27 390	D 80 837	D
	manufacturing	1	45	12	732	20 530	562	1 080	12 800	51 427	37 389	89 827	D

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

¹Includes establishments with payroll at any time during the year.

³Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 249 employees; 6–250 to 499 employees; f–500 to 99.99 employees; g–1,000 to 24,999 employees; h–2,500 to 49,999 employees; h–50,000 to 99,999 employees; m–10,000 employees nore.

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

[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]

	aning of appreviations and symbols, set			ull hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	AMES-BOONE, IA COMBINED STATISTICAL AREA												
31-33	Manufacturing	-	104	44	h	D	D	D	D	D	D	D	48 112
311	Food manufacturing	-	8	5	е	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	_	6	3	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering and												
311612	processing Meat processed from	-	6	3	е	D	D	D	D	D	D	D	D
201	carcasses	-	2 5	1	е	D D	D D	D D	D D	D D	D D	D D	D D
321 3219	Wood product manufacturing Other wood product	_	5	3	е	U	D D	ט	0	ט	D D	U	D
	manufacturing	-	3	1	е	D	D	D	D	D	D	D	D
32191 321911	Millwork	-	1	1	е	D	D	D D	D	D	D	D	D
322	manufacturing Paper manufacturing		1 4	1	e e	D D	D D	D	D D	D D	D D	D D	D D
3222	Converted paper product		"		6	Ь		Ь				D	D
	manufacturing	-	4	3	е	D	D	D	D	D	D	D	D
323	Printing and related support activities	2	12	7	е	D	D	D	D	D	D	D	D
3231	Printing and related support activities	2	12	7	e	D	D	D	D	D	D	D	D
32311	Printing	2	12	7	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	_	9	5	е	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	_	6	3	е	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	-	4	2	е	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	_	6	4	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
32791	Abrasive product		1	1	e	D	D	D	D	D	D	D	D
327910	manufacturing Abrasive product manufacturing		' '	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product		'		6	Ь		Ь				D	D
	manufacturing	-	16	5	е	D	D	D	D	D	D	D	D
333 3339	Machinery manufacturing  Other general purpose machinery	-	8	5	T I	D	D	D	D	D	D	D	D
	manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
33399 333996	All other general purpose machinery manufacturing Fluid power pump and motor	-	3	2	f	D D	D D	D D	D D	D D	D	D D	D D
	manufacturing Ames, IA Metropolitan	_	'	'	'	D	D	U		D		D	Б
	Statistical Area												
31-33	Manufacturing		69	30	3 753	148 524	2 468	4 779	77 611	590 384	424 777	1 023 889	39 508
311 3116	Food manufacturing  Animal slaughtering and	-	4		345	11 802	278	545	8 048	33 035	47 760	80 237	D
31161	processing	-	4	3	345	11 802	278	545	8 048	33 035	47 760	80 237	D
311612	processing	-	4	3	345	11 802	278	545	8 048	33 035	47 760	80 237	D
	carcasses	-	2	1	е	D	D	D	D	D	D	D	D
321	Wood product manufacturing	-	3	2	е	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	-	2	1	е	D	D	D	D	D	D	D	D
32191 321911	Millwork	-	1	1	е	D	D	D	D	D	D	D	D
323	manufacturing  Printing and related support		1	1	е	D	D	D	D	D	D	D	D
3231	activities	2	10	7	418	12 709	286	516	8 036	28 698	18 998	47 921	3 183
32311	activities	2	10	7	418 418	12 709 12 709	286 286	516 516	8 036 8 036	28 698 28 698	18 998 18 998	47 921 47 921	3 183 3 183
325	Chemical manufacturing	_	5	3	e e	12 709 D	200 D	D	D 030	20 090 D	D D	47 921 D	1 007
3251	Basic chemical manufacturing	_	2	2	e	D	D	D	D	D	D	D	D
			_	_	31	5	51	5	5	51	5,	51	5

[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]

1011110	aning of abbreviations and symbols, see	J max	A establisi	JI	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	AMES-BOONE, IA COMBINED STATISTICAL AREA—Con.												
	Ames, IA Metropolitan Statistical Area—Con.												
327	Nonmetallic mineral product manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	_	2	1	e	D	D	D	D	D	D	D	D
32791	Abrasive product manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
327910	Abrasive product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
333 3339	Machinery manufacturing	-	6	4	789	38 858	372	621	12 770	102 378	87 895	194 383	3 418
	Other general purpose machinery manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
33399 333996	All other general purpose machinery manufacturing Fluid power pump and motor manufacturing	-	3 1	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
	Boone, IA Micropolitan Statistical Area												
31-33	Manufacturing	-	35	14	f	D	D	D	D	D	D	D	8 604
	DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA												
31-33	Manufacturing	_	530	160	25 347	981 038	17 716	33 626	571 258	2 990 661	3 339 416	6 321 503	171 489
311 3112	Food manufacturing  Grain and oilseed milling	_	63	24	h e	D D	D D	D D	D D	D D	D D	D D	D D
	_					5		J			J	5	
3114	Fruit and vegetable preserving and specialty food manufacturing	-	3	3	е	D	D	D	D	D	D	D	2 863
3115	Dairy product manufacturing	_	5	4	f	D	D	D	D	D	D	D	D
31151 311511	Dairy product (except frozen) manufacturing Fluid milk manufacturing	_ _	4 2	4 2	f f	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	1	14	5	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	1	14	5	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	1	10	4	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing	_	6	4	804	36 638	563	881	20 379	202 548	107 458	313 384	D
31194 311942	Seasoning and dressing manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
31199	manufacturing	_ _	1 4	1 3	f e	D D	D D	D D	D D	D D	D D	D D	D 1 034
321	Wood product manufacturing	1	19	2	е	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	1	16	1	е	D	D	D	D	D	D	D	D
32191 321911	Millwork	_	8	1	356 e	10 761 D	252 D	515 D	5 923 D	25 495 D	32 672 D	58 085 D	671 D
323	Printing and related support activities	2	93	24	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities	2	93	24	g	D	D	D	D	D	D	D	D
32311 323110	Printing Commercial lithographic	1	82	21	g	D	D	D	D	D	D	D	D
323111	printing	1 -	40 1	13 1	g e	D D	D D	D D	D D	D D	D D	D D	D D
325	Chemical manufacturing	_	24	8	745	37 391	403	840	14 997	196 521	227 192	421 719	7 500
3254	Pharmaceutical and medicine manufacturing	1	6	3	273	11 734	150	308	6 262	39 716	15 580	55 654	D
32541	Pharmaceutical and medicine manufacturing	1	6	3	273	11 734	150	308	6 262	39 716	15 580	55 654	D

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	aning of abbreviations and symbols, see		establis	ul I	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA—Con.												
326	Plastics and rubber products manufacturing	_	23	15	h	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	-	13	9	f	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	_	6	4	376	16 490	321	671	12 655	50 875	51 170	102 695	D
326112	Plastics packaging film and sheet (including laminated) manufacturing	_	2	2	е	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	2	5	3	325	11 002	246	554	6 070	23 526	21 593	45 344	1 799
326199	All other plastics product manufacturing	2	5	3	325	11 002	246	554	6 070	23 526	21 593	45 344	1 799
3262	Rubber product manufacturing	-	10	6	g	D	D	D	D	D	D	D	D
32621	Tire manufacturing	_	5	4	g	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading)	_	3	3	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	41	15	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	27	12	f	D	D	D	D	D	D	D	D
32732 327320	Ready-mix concrete manufacturing Ready-mix concrete	1	14	7	f	D	D	D	D	D	D	D	1 804
332	manufacturing  Fabricated metal product	1	14	7	f	D	D	D	D	D	D	D	1 804
	manufacturing	1	75	12	g	D	D	D	D	D	D	D	D
3321	Forging and stamping	9	2	1	е	D	D	D	D	D	D	D	D
33211 332114	Forging and stamping Custom roll forming	9	1	1 1	e e	D D	D D	D D	D D	D D	D D	D D	D D
3323	Architectural and structural metals manufacturing	_	22	6	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products												
332321	manufacturing Metal window and door manufacturing	- -	13	3	f f	D D	D D	D D	D D	D D	D D	D D	D D
333	Machinery manufacturing	-	40	19	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	11	9	1 507	77 335	1 009	2 013	47 149	308 371	223 909	523 342	D
33311	Agricultural implement			_									10 ==1
333111	manufacturing Farm machinery and equipment manufacturing	_	9	7	g g	D D	D D	D D	D D	D D	D D	D D	12 551 12 551
3332	Industrial machinery manufacturing	_	7	4	323	16 241	149	295	5 959	30 976	26 227	56 053	886
33329	Other industrial machinery manufacturing	_	6	4	е	D	D	D	D	D	D	D	886
3333	Commercial and service industry machinery manufacturing	_	8	4	g	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery		8	4		D	D	D	D	D	D	D	D
333311	manufacturing	_			g	D	D	D	D	D		D	D
333319	manufacturing Other commercial and	_	1	1	е	U	D	D	ט	U	D	J D	D
	service industry machinery manufacturing	_	6	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	_	14	4	520	21 576	173	309	4 499	122 971	33 589	159 900	1 007
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	7	2	е	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control												
334513	instruments manufacturing Instruments and related products manufacturing for measuring, displaying, and controlling industrial process	-	7	2	е	D	D	D	D	D	D	D	D
	variables	l –	3	1	е	D	D	D	D	D	D	D	D

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For me	aning of abbreviations and symbols, see	e intre	oductory to										
			establis	hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA—Con.												
335	Electrical equipment, appliance, and component manufacturing	_	5	5	h	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
33522 335224	Major appliance manufacturing. Household laundry equipment manufacturing	_ _	1	1	h h	D D	D D	D D	D D	D D	D D	D D	D D
336	Transportation equipment manufacturing	1	25	7	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	2	12	5	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	2	4	4	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	2	4	4	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
33641 336412	Aerospace product and parts manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
337	parts manufacturing  Furniture and related product	_	1	1	е	D	D	D	D	D	D	D	D
3371	manufacturing	_	29	5	f	D	D	D	D	D	D	D	D
3371	furniture and kitchen cabinet manufacturing	2	19	2	е	D	D	D	D	D	D	D	D
33712 337122	Household and institutional furniture manufacturing Nonupholstered wood	2	9	2	е	D	D	D	D	D	D	D	D
007 122	household furniture manufacturing	_	5	1	е	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	_	10	3	е	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	_	10	3	е	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	_	47	10	813	21 596	619	1 196	13 012	44 189	30 805	76 143	D
3391	Medical equipment and supplies manufacturing	_	21	1	304	7 145	271	534	5 861	16 338	8 480	24 775	D
33911	Medical equipment and supplies manufacturing	_	21	1	304	7 145	271	534	5 861	16 338	8 480	24 775	D
3399	Other miscellaneous manufacturing	_	26	9	509	14 451	348	662	7 151	27 851	22 325	51 368	D
	Des Moines, IA Metropolitan Statistical Area												
31-33	Manufacturing	_	481	147	20 473	750 267	14 321	27 534	451 153	2 515 801	2 851 750	5 362 017	130 106
311	Food manufacturing	-	59	23	4 366	142 271	3 086	6 561	87 017	603 057	1 225 396	1 827 248	38 003
3112	Grain and oilseed milling	_	6	4	е	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	3	3	e	D	D	D	D	D	D	D	2 863
3115	Dairy product manufacturing	_	4	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing			٥		D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	_	3 2	3 2	f	D	D	D	Б	D	D	D	D
3116	Animal slaughtering and processing	1	12	5	1 894	49 869	1 659	3 812	40 687	102 515	355 910	459 233	2 442
31161 311611	Animal slaughtering and processing	1	12	5	1 894	49 869	1 659	3 812	40 687	102 515	355 910	459 233	2 442
	slaughtering	1	10	4	g	D	D	D	D	D	D	D	D
3119 31194	Other food manufacturing  Seasoning and dressing	_	6	4	804	36 638	563	881	20 379	202 548	107 458	313 384	D
311942	manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
31199	manufacturing	_	1 4	1 3	f e	D D	D D	D D	D D	D D	D D	D D	D 1 034

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For me	eaning of abbreviations and symbols, see	e mur		ul I	All em	ployees	Pro	oduction worl	kers				
NAICS			establis	hments <sup>2</sup>		,							
code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA—Con.												
	Des Moines, IA Metropolitan Statistical Area—Con.												
321	Wood product manufacturing	1	18	2	436	12 860	318	649	7 437	29 202	36 360	65 411	805
3219	Other wood product manufacturing	_	15	1	403	11 789	292	588	6 690	26 867	34 582	61 374	D
32191 321911	Millwork	-	8	1	356	10 761	252	515	5 923	25 495	32 672	58 085	671
323	manufacturing  Printing and related support	_	3	1	е	D 74 450	D	D	D 45 505	D	D	D	D 7 000
3231	activities  Printing and related support	2	89	22	2 084	74 456	1 520	2 694	45 525	153 721	116 169	270 956	7 882
	activities	2	89	22	2 084	74 456	1 520	2 694	45 525	153 721	116 169	270 956	7 882
32311 323110	Printing Commercial lithographic	1	78	19	1 866	67 648	1 341	2 341	40 857	138 874	104 089	243 648	6 641
323111	printing	1 -	36 1	11	1 056 e	44 467 D	753 D	1 465 D	26 888 D	99 032 D	78 664 D	176 840 D	4 696 D
325	Chemical manufacturing	_	24	8	745	37 391	403	840	14 997	196 521	227 192	421 719	7 500
3254	Pharmaceutical and medicine manufacturing	1	6	3	273	11 734	150	308	6 262	39 716	15 580	55 654	D
32541	Pharmaceutical and medicine manufacturing	1	6	3	273	11 734	150	308	6 262	39 716	15 580	55 654	D
326	Plastics and rubber products manufacturing	_	18	12	2 942	126 576	2 389	4 549	97 140	263 190	299 334	568 323	24 845
3261	Plastics product manufacturing	-	12	8	f	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and												
326112	sheet manufacturing	-	6	4	376	16 490	321	671	12 655	50 875	51 170	102 695	D
32619	manufacturing Other plastics product	-	2	2	е	D	D	D	D	D	D	D	D
326199	manufacturing	2	5	3	325	11 002	246	554	6 070	23 526	21 593	45 344	1 799
020100	manufacturing	2	5	3	325	11 002	246	554	6 070	23 526	21 593	45 344	1 799
3262	Rubber product manufacturing	-	6	4	g	D	D	D	D	D	D	D	D
32621 326211	Tire manufacturing  Tire manufacturing (except retreading)	_	4 2	3 2	g g	D D	D D	D D	D D	D D	D D	D D	D D
327	Nonmetallic mineral product manufacturing	1	38	14	1 013	30 218	835	1 386	23 614	74 483	60 371	135 537	3 490
3273	Cement and concrete product manufacturing	1	25	11	785	23 452	648	992	18 494	58 853	49 490	109 735	3 002
32732	Ready-mix concrete			_									
327320	manufacturing		13	7	618	17 170	526	718	14 554	39 522	37 097	77 021	1 804
332	manufacturing  Fabricated metal product	1	13	7	618	17 170	526	718	14 554	39 522	37 097	77 021	1 804
3321	manufacturing	1 9	66	12	1 715	59 596 D	1 207 D	2 318 D	33 705 D	250 357 D	139 927 D	387 121 D	7 336 D
3321	Forging and stamping  Forging and stamping	9	'	'	e e	D	D	D	D D	D	D	D	D
332114 3323	Custom roll forming  Architectural and structural metals	9	1	1	е	D	D	D	D	D	D	D	D
33232	manufacturing  Ornamental and architectural	-	20	6	891	30 853	557	1 073	13 973	106 721	80 721	184 293	D
00202	metal products manufacturing	_	12	4	768	26 181	466	891	11 314	95 030	72 642	164 348	D
332321	Metal window and door manufacturing	_	3	3	f	D D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	36	17	2 902	132 041	1 676	3 028	65 904	410 518	380 552	776 002	22 334
3331	Agriculture, construction, and mining machinery manufacturing	_	11	9	1 507	77 335	1 009	2 013	47 149	308 371	223 909	523 342	D
33311	Agricultural implement		''		. 307	,, 505	. 509	2 010	4, 149	555 571	220 009	020 072	
333111	manufacturing  Farm machinery and  equipment manufacturing	_ _	9	7	g	D D	D D	D D	D D	D D	D D	D D	12 551 12 551
3332	Industrial machinery	_			g								
33329	manufacturing	_	7	4	323	16 241	149	295	5 959	30 976	26 227	56 053	886
	manufacturing	ı –	1 6	4	е	l D	l Di	D	l D	D	D	D	886

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Notice   Property	-oi iile	aning of abbreviations and symbols, see	- 11111	Δ	ui l	All em	ployees	Pro	oduction wor	kers				
Second color for the color of	NAICS			establis		741 0111	picycco		Jacobion Won	NOTO .				<b>-</b>
COMBINED STATSTICAL   AREA—COME   Commission All Composition   Season   Commission All Composition   Composition All Composition   Co		Geographic area and industry	E <sup>1</sup>	Total	em- ploy- ees or	Number <sup>3</sup>		Number <sup>4</sup>				cost of materials	value of shipments	Total capital expendi- tures (\$1,000)
Statistical Area - Con.		COMBINED STATISTICAL												
Commercial and service inclusing memorial and service inclusing machinery memorial and service inclusion and servic														
Sample   S	333 3333	Commercial and service industry	_	7	3	886	31 280	403	517	9 002	59 642	55 106	109 554	8 123
Automatic winding machine	33331	industry machinery												
Sample   Chies commercial and experience   Sample   Sam	333311	Automatic vending machine												8 123 D
Computer and electronic product	333319	Other commercial and service industry machinery												D
Navigational measuring contromedical, and control instruments manufacturing   -	334	Computer and electronic product	_			•								_
Instruments manufacturing	3345	Navigational, measuring,	_	14	4	520	21 5/6	1/3	309	4 499	122 9/1	33 589	159 900	1 007
Selectromedical and control   Selectromedical   Selectrome		instruments manufacturing	_	7	2	е	D	D	D	D	D	D	D	D
Controlling industrial process   2   3   1   e   D   D   D   D   D   D   D   D   D		electromedical, and control instruments manufacturing Instruments and related products manufacturing for	-	7	2	е	D	D	D	D	D	D	D	D
manufacturing		controlling industrial process	_	3	1	е	D	D	D	D	D	D	D	D
manufacturing	336	Transportation equipment manufacturing	_	21	5	1 412	45 848	1 070	1 905	30 603	100 234	128 974	230 349	4 744
Manufacturing	3363		_	10	3	f	D	D	D	D	D	D	D	4 264
All other motor vehicle parts manufacturing   - 3 3 3 881 24 398 787 1 411 19 337 64 535 88 205 148 554	33639	Other motor vehicle parts	_	3	3	891	24 398	787	1 411	19 337	64 535	88 205	148 554	4 173
Manufacturing	336399	All other motor vehicle parts	_											4 173
Manufacturing	3364		_	2	1	е	D	D	D	D	D	D	D	D
All Creater engine and engine parts manufacturing   -   1   1   e   D   D   D   D   D   D   D   D   D		manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
manufacturing	336412	Aircraft engine and engine	_	1	1	е	D	D	D	D	D	D	D	D
Turniture and kitchen cabinet manufacturing	337	Furniture and related product manufacturing	_	23	4	607	17 135	411	792	9 094	136 553	18 441	156 153	1 072
Internative manufacturing   Sarative manufac	3371	furniture and kitchen cabinet	_	15	1	e	D	D	D	D	D	D	D	D
household furniture manufacturing		furniture manufacturing	_	8	1	e	D	D	D	D	D	D	D	D
3372   Office furniture (including fixtures)   -	337122	household furniture	_	5	1	۵	n	n	n		n	n	n	D
Office furniture (including fixtures) manufacturing   -   8   3   e   D   D   D   D   D   D   D   D   D	3372	Office furniture (including fixtures)			ا ،									D
Miscellaneous manufacturing	33721	Office furniture (including	_											
manufacturing   manufacturin	339	,	_											D 1 389
Medical equipment and supplies manufacturing   18   1   296   6 896   265   522   5 694   15 840   8 342   24 139	3391		_	18	1	296	6 896	265	522	5 694	15 840	8 342	24 139	346
3399   Other miscellaneous	33911	Medical equipment and	_											346
Newton, IA Micropolitan Statistical Area         –         49         13         4 874         230 771         3 395         6 092         120 105         474 860         487 666         959 486         43           333         Machinery manufacturing	3399	Other miscellaneous	_											1 043
31-33 Manufacturing		Newton, IA Micropolitan				33.	2.0	0.0	30.	, 332	2, 202	22 302	00 7.02	. 0.0
333 Machinery manufacturing 1 4 2 e D D D D D D D D D D D D D D D D D D	31-33		_	49	13	4 874	230 771	3 395	6 092	120 105	474 860	487 666	959 486	41 383
	333		1	4	2	е	D	D	D	D	D	D	D	D
	335	Electrical equipment, appliance, and component manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
3352 Household appliance	3352	Household appliance manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
33522 Major appliance manufacturing 1 1 1 h D D D D D D D D D D D D D D D D	33522 335224	Major appliance manufacturing. Household laundry	_											D D

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For me	eaning of abbreviations and symbols, see	e intr	oductory te				_					-	
			establis	hments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA—Con.												
	Newton, IA Micropolitan Statistical Area—Con.												
336	Transportation equipment manufacturing	7	4	2	е	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	7	2	2	е	D	D	D	D	D	D	D	D
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA												
31-33	Manufacturing	-	813	260	37 586	1 302 632	27 875	56 581	845 948	4 445 943	6 753 240	11 121 312	370 207
311 3112	Food manufacturing  Grain and oilseed milling	_	115	57 6	14 153	457 719 D	11 356 D	24 827 D	339 266 D	2 071 971 D	4 483 396 D	6 553 226 D	133 220 D
31122	Starch and vegetable fats and				g					5	5		
311221	oils manufacturing Wet corn milling	_	5 2	3	e e	D D	D D	D D	D D	D D	D D	D D	D D
31123	Breakfast cereal manufacturing	_	1	1	f	D	D	D	_ D	D	D	D	D
311230	Breakfast cereal manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	9	5	g	D	D	D	D	D	D	D	13 504
31141 311412	Frozen food manufacturing Frozen specialty food	-	8	5	g	D	D	D	D	D	D	D	D
	manufacturing	-	5	3	g	D	D	D	D	D	D	D	D D
3115 31151	Dairy product manufacturing Dairy product (except frozen)	_	5	3	е	D	D	D	D	D	D	D	D
311511	manufacturing  Fluid milk manufacturing	-	5 3	3 2	e e	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	1	40	26	8 756	248 831	7 564	16 537	198 276	981 260	2 932 077	3 918 366	D
31161	Animal slaughtering and												D
311611	processing Animal (except poultry) slaughtering	1 -	40 16	26 9	8 756 h	248 831 D	7 564 D	16 537 D	198 276 D	981 260 D	2 932 077 D	3 918 366 D	D
311612	Meat processed from carcasses	4	15	13	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	_	25	9	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing	_	21	6	g	D	D	D	D	D	D	D	D
311812 31183	Commercial bakeries Tortilla manufacturing	_	6	3	g e	D D	D	D	D	D	D	D	D
311830	Tortilla manufacturing	_	2 2	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing		12	3	е	D	D	D	D	D	D	D	D
321 3219	Wood product manufacturing  Other wood product	2	25	7	f	D	D	D	D	D	D	D	D
	manufacturing	3	22	4	е	D	D	D	D	D	D	D	D
322 3222	Paper manufacturing  Converted paper product	-	9	8	f	D	D	D	D	D	D	D	D
32221	manufacturing	-	9	8	f	D	D	D	D	D	D	D	D
322211	manufacturing Corrugated and solid fiber	_	6	6	f	D	D	D	D	D	D	D	D
322211	box manufacturing Folding paperboard box	_	4	4	е	D	D	D	D	D	D	D	D
32222	manufacturing Paper bag and coated and	-	2	2	е	D	D	D	D	D	D	D	D
322224	treated paper manufacturing Uncoated paper and multiwall	-	1	1	е	D	D	D	D	D	D	D	D
323	bag manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
323	Printing and related support activities  Printing and related support	1	146	31	h	D	D	D	D	D	D	D	D
0201	activities	1	146	31	h	D	D	D	D	D	D	D	D
32311 323110	Printing Commercial lithographic	1	137	28	h	D	D	D	D	D	D	D	D
323112	printing	-	56	15	g	D	D	D	D	D	D	D	D
323116	printing	-	4	4	590	22 605	395	715	12 785	58 065	63 451	121 580	D
	printing	I –	6	3	е	D	D	D	l D	D	D	D	D

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			oductory te	JI .	All emi	oloyees	Pro	duction work	kers				
NAICS			establisl		7 6,								
code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA—Con.												
325	Chemical manufacturing	-	31	10	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	-	11	6	f	D	D	D	D	D	D	D	6 368
32541	Pharmaceutical and medicine manufacturing	_	11	6	f	D	D	D	D	D	D	D	6 368
325414	Biological product (except diagnostic) manufacturing	-	4	4	е	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	33	16	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	1	32	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	_	20	10	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	_	18	9	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	52	20	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product				9								
32732	manufacturing	1	39	19	g	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing Ready-mix concrete	-	20	9	е	D	D	D	D	D	D	D	D
32733	manufacturing	-	20	9	е	D	D	D	D	D	D	D	D
327332	manufacturing Concrete pipe	-	7	3	е	D	D	D	D	D	D	D	D
32739	manufacturing Other concrete product	_	4	2	e	D	D	D	D 0000	D 10 007	D 10 040	D 40, 477	D D
327390	manufacturing Other concrete product manufacturing	6	11	6	385 385	12 580 12 580	293 293	467 467	8 066 8 066	19 337 19 337	19 346 19 346	42 477 42 477	D
331	Primary metal manufacturing	_	6	5	f	12 300 D	D		D 000	13 337 D	13 340 D	72 4// D	D
3315	Foundries	-	5	4	f	D	D	D	D	D	D	D	D
33151 331511	Ferrous metal foundries Iron foundries	_	4 3	3 2	f e	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	1	119	21	1 969	66 914	1 481	2 961	44 610	134 356	153 803	285 623	D
3323	Architectural and structural metals manufacturing	_	29	5	e	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing	_	15	4	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt												
	manufacturing		54	9	f	D	D	D	D	D	D	D	D
33271 332710	Machine shops	2	45 45	5 5	f f	D D	D D	D D	D D	D D	D D	D D	D D
3329	Other fabricated metal product manufacturing	_	13	4	f	D	D	D	D	D	D	D	D
33299 332999	All other fabricated metal product manufacturing All other miscellaneous	-	11	3	е	D	D	D	D	D	D	D	D
	fabricated metal product manufacturing	-	9	3	е	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	54	22	3 430	139 033	2 116	4 437	65 793	307 826	329 062	625 025	D
3331	Agriculture, construction, and mining machinery manufacturing	_	12	7	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing		10	5		D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing		10	5	g g	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	2	10	3	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery	_				-		_	,		_	_	-
333514	manufacturing Special die and tool, die set, jig, and fixture manufacturing	2	10	3	f e	D D	D D	D D	D D	D D	D D	D D	D D
3339	Other general purpose machinery manufacturing	2	18	6	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing		7	4	e	D	D	D	D	D	D	D	D

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			A establisl	.II hments <sup>2</sup>	All em	ployees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA—Con.												
334	Computer and electronic product manufacturing	-	21	7	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	-	4	1	g	D	D	D	D	D	D	D	D
33421 334210	Telephone apparatus manufacturing Telephone apparatus manufacturing	-	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
335	Electrical equipment, appliance, and component manufacturing	1	10	5	1 257	64 140	826	1 420	35 253	219 228	108 176	305 193	4 847
3359	Other electrical equipment and component manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
33592 335929	Communication and energy wire and cable manufacturing . Other communication and energy wire manufacturing .	-	2	2	f	D D	D D	D D	D D	D D	D D	D D	D D
336	Transportation equipment manufacturing	1	19	9	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	_	7	5	f	D	D	D	D	D	D	D	D
33621 336211	Motor vehicle body and trailer manufacturing	-	7	5	f	D D	D D	D D	D D	D D	D D	D D	D D
337	Furniture and related product manufacturing	1	53	17	e 1 977	63 833	1 475	2 745	41 056	226 251	127 701	352 575	5 150
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	35	10	f	D	D	2 / .G	D. 000	D	D	D	D .00
33711 337110	Wood kitchen cabinet and countertop manufacturing Wood kitchen cabinet and countertop manufacturing	-	26 26	7	329	9 763 9 763	265 265	513 513	6 480 6 480	18 327 18 327	9 208 9 208	26 657 26 657	1 037 1 037
3372	Office furniture (including fixtures) manufacturing	1	14	5	1 150	39 327	856	1 645	25 756	165 605	81 763	247 454	3 620
33721	Office furniture (including fixtures) manufacturing	1	14	5	1 150	39 327	856	1 645	25 756	165 605	81 763	247 454	3 620
337215	Showcase, partition, shelving, and locker manufacturing	1	7	4	1 110	37 958	827	1 582	25 032	162 286	80 853	243 225	3 596
3379	Other furniture related product manufacturing	-	4	2	е	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	82	15	g	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing	-	34	6	f	D	D	D	D	D	D	D	D
33911 339113	Medical equipment and supplies manufacturing Surgical appliance and	-	34	6	f	D	D	D	D	D	D	D	D
3399	supplies manufacturing Other miscellaneous	-	2	2	f	D	D	D	D	D	D	D	D
33999	manufacturing  All other miscellaneous	1	48	9	f	D	D	D	D	D	D	D	D
339991	manufacturing	-	15 1	6	f e	D D	D D	D D	D D	D D	D D	D D	D D
339999	All other miscellaneous manufacturing	-	11	4	е	D	D	D	D	D	D	D	D
	Fremont, NE Micropolitan Statistical Area												
31-33	Manufacturing	-	70	29	3 652	108 074	2 842	5 525	73 648	382 457	594 202	979 512	8 430
311	Food manufacturing	-	26	12	2 001	62 580	1 630	3 206	45 895	271 182	496 210	770 948	5 414
3116	Animal slaughtering and processing	-	5	4	1 604	50 492	1 357	2 692	38 375	218 595	319 488	544 071	D
31161 311611	Animal slaughtering and processing	  - 	5 3	4	1 604 g	50 492 D	1 357 D	2 692 D	38 375 D	218 595 D	319 488 D	544 071 D	D D
332	Fabricated metal product manufacturing	_	12	3	313	10 090	247	496	7 081	27 328	10 200	36 467	D

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Forme	aning of abbreviations and symbols, see	e mur		ui I	All a	mla.ca.a.	Dec		l saua				
			establis	hments <sup>2</sup>	All em	ployees	Pic	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA—Con.												
	Fremont, NE Micropolitan Statistical Area — Con.												
333	Machinery manufacturing	3	7	3	424	9 607	279	453	5 493	23 482	18 293	41 366	879
3335	Metalworking machinery manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area												
31-33	Manufacturing	_	743 89	231 45	33 934	1 194 558 395 139	25 033	51 056	772 300 293 371	4 063 486 1 800 789	6 159 038 3 987 186	10 141 800	361 777 127 806
311 3112	Food manufacturing  Grain and oilseed milling	_	6	45	12 152 1 158	72 001	9 726 925	21 621 2 007	61 399	500 927	958 981	5 782 278 1 454 202	127 806 D
31122	Starch and vegetable fats and oils manufacturing	_	3	2	e	D	D	D	D	D	D	D	D
311221 31123	Wet corn milling Breakfast cereal	-	1	1	e	D	D	D	D	D	D	D	D
311230	manufacturing Breakfast cereal	-	1	1	f	D	D	D	D	D	D	D	D
3114	manufacturing  Fruit and vegetable preserving	-	1	1	Ť	D	D	D	D	D	D	D	D
	and specialty food manufacturing	_	9	5	g	D	D	D	D	D	D	D	13 504
31141 311412	Frozen food manufacturing Frozen specialty food	-	8	5	g	D	D	D	D	D	D	D	D
3115	manufacturing	-	5	3	g	D D	D D	D D	D D	D D	D D	D D	D D
31151	Dairy product manufacturing Dairy product (except frozen)	_			е								_
311511	manufacturing	_	3 2	2 2	e e	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	1	35	22	7 152	198 339	6 207	13 845	159 901	762 665	2 612 589	3 374 295	60 263
31161	Animal slaughtering and processing	1	35	22	7 152	198 339	6 207	13 845	159 901	762 665	2 612 589	3 374 295	60 263
311611 311612	Animal (except poultry) slaughtering Meat processed from	-	13	7	3 127	86 174	2 800	6 197	70 113	218 910	1 853 878	2 076 653	8 929
	carcasses	4	13	11	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	-	22	9	g	D	D	D	D	D	D	D	D
31181 311812	Bread and bakery product manufacturing	-	18 5	6	g	D D	D D	D D	D D	D D	D D	D D	D D
31183 311830	Tortilla manufacturing Tortilla manufacturing	_ _	2 2	1	g e e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	2	21	4	462	12 647	370	742	8 316	24 939	26 289	52 307	1 240
3219	Other wood product manufacturing	3	20	3	е	D	D	D	D	D	D	D	D
322	Paper manufacturing	_	8	7	937	37 145	741	1 574	24 617	95 695	154 148	248 102	D
3222	Converted paper product manufacturing	_	8	7	937	37 145	741	1 574	24 617	95 695	154 148	248 102	D
32221	Paperboard container		_	-	f	D	D	D	D	D	D	D	D
322211	manufacturing Corrugated and solid fiber box manufacturing	_	5	5	e	D D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing	_	2	2	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	141	31	2 866	104 309	2 003	3 656	63 127	233 912	194 650	426 582	14 893
3231	Printing and related support activities	1	141	31	2 866	104 309	2 003	3 656	63 127	233 912	194 650	426 582	14 893
32311 323110	Printing  Commercial lithographic	1	132	28	2 623	94 359	1 857	3 368	57 547	213 600	193 433	404 977	D
323112	printing Commercial flexographic	-	54	15	1 086	40 293	803	1 479	24 995	87 529	59 987	145 920	3 214
323116	printing	_	5	3	590 e	22 605 D	395 D	715 D	12 785 D	58 065 D	63 451 D	121 580 D	D D
	F		3	51		5	5	5	5	5	5	5	

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	aning of abbreviations and symbols, see	- 11111	Δ		All em	ployees	Pro	oduction work	vers				
NAICS code	Geographic area and industry			With 20 em- ploy- ees or		Payroll		Hours	Wages	Value added	Total cost of materials	Total value of shipments	Total capital expendi- tures
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA — Con.	E¹	Total	more	Number <sup>3</sup>	(\$1,000)	Number <sup>4</sup>	(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area —Con.												
325	Chemical manufacturing	-	28	9	1 043	48 487	685	1 357	26 359	69 946	461 561	508 295	11 970
3254	Pharmaceutical and medicine manufacturing	_	11	6	f	D	D	D	D	D	D	D	6 368
32541 325414	Pharmaceutical and medicine manufacturing	- -	11	6 4	f e	D D	D D	D D	D D	D D	D D	D D	6 368 D
326	Plastics and rubber products manufacturing	1	31	16	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	1	30	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	_	18	10	1 533	43 987	1 204	2 358	29 375	95 680	72 600	166 447	21 821
326199	All other plastics product manufacturing	_	16	9	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	50	19	1 369	52 330	1 118	2 196	38 113	166 522	146 753	315 022	9 893
3273	Cement and concrete product manufacturing	1	37	18	g	D	D	D	D	D	D	D	9 701
32732	Ready-mix concrete manufacturing	_	18	8	320	13 020	283	575	10 430	41 857	59 869	101 818	2 048
327320	Ready-mix concrete manufacturing	_	18	8	320	13 020	283	575	10 430	41 857	59 869	101 818	2 048
32733	Concrete pipe, brick, and block manufacturing	-	7	3	е	D	D	D	D	D	D	D	D
327332 32739	Concrete pipe manufacturing Other concrete product	-	4	2	е	D	D	D	D	D	D	D	D
327390	manufacturing Other concrete product	6	11	6	385	12 580	293	467	8 066	19 337	19 346	42 477	D
	manufacturing	6	11	6	385	12 580	293	467	8 066	19 337	19 346	42 477	D
331 3315	Primary metal manufacturing  Foundries	_	6 5	5	f f	D D	D D	D D	D D	D D	D D	D D	D D
33151	Ferrous metal foundries	_	4	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	3	2	е	D	D	D	D	D	D	D	D
332 3323	Fabricated metal product manufacturing	1	107	18	1 656	56 824	1 234	2 465	37 529	107 028	143 603	249 156	D
	manufacturing	-	26	4	403	13 498	293	528	8 380	35 119	57 447	90 267	D
33231	Plate work and fabricated structural product manufacturing	_	14	3	316	10 959	232	420	6 938	26 473	49 947	74 422	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	48	8	517	18 229	397	794	13 147	32 996	14 774	47 599	D
33271 332710	Machine shops	3	39 39	4	305 305	11 819 11 819	233 233	425 425	8 873 8 873	22 092 22 092	10 196 10 196	32 063 32 063	D D
3329	Other fabricated metal product manufacturing	_	12	4	f	D	D	D	0 0/0 D	D	D 130	52 000 D	D
33299	All other fabricated metal												
332999	product manufacturing All other miscellaneous fabricated metal product manufacturing	_	10	3	483 e	14 521 D	346 D	763 D	8 724 D	18 467 D	51 094 D	70 688 D	D D
333	Machinery manufacturing	_	47	19	3 006	129 426	1 837	3 984	60 300	284 344	310 769	583 659	D
3331	Agriculture, construction, and mining machinery						D	D	D	D	D	D	D
33311	manufacturing	_	10	6	g	D	الا	וט	ט	ال	ال	ال	ט
333111	manufacturing	-	9	5 5	1 768 1 768	86 305 86 305	1 062 1 062	2 347 2 347	36 221 36 221	207 555 207 555	239 728 239 728	435 958 435 958	D D
3339	Other general purpose machinery manufacturing	2	16	6	426	15 844	292	561	9 363	29 378	24 723	54 615	D
33392	Material handling equipment manufacturing		7	4	е	D	D	D	D	D	D	D	D

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			A establisl	.ll hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	OMAHA-COUNCIL BLUFFS- FREMONT, NE-IA COMBINED STATISTICAL AREA—Con.												
	Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area —Con.												
334	Computer and electronic product manufacturing	_	20	7	1 670	57 067	839	1 486	33 845	306 422	65 948	353 129	D
3342	Communications equipment manufacturing	_	4	1	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	1	10	5	1 257	64 140	826	1 420	35 253	219 228	108 176	305 193	4 847
3359	Other electrical equipment and component manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing.	_	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing .	_	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	2	18	8	631	19 310	441	866	12 372	37 663	34 585	71 256	1 832
3362	Motor vehicle body and trailer manufacturing	1	6	4	е	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	1	6	4	е	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	53	17	1 977	63 833	1 475	2 745	41 056	226 251	127 701	352 575	5 150
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	35	10	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and			7									
337110	countertop manufacturing Wood kitchen cabinet and countertop manufacturing	_	26 26	7	329 329	9 763 9 763	265 265	513 513	6 480 6 480	18 327 18 327	9 208 9 208	26 657 26 657	1 037 1 037
3372	Office furniture (including fixtures) manufacturing	1	14	5	1 150	39 327	856	1 645	25 756	165 605	81 763	247 454	3 620
33721	Office furniture (including fixtures) manufacturing	1	14	5	1 150	39 327	856	1 645	25 756	165 605	81 763	247 454	3 620
337215	Showcase, partition, shelving, and locker manufacturing	1	7	4	1 110	37 958	827	1 582	25 032	162 286	80 853	243 225	3 596
3379	Other furniture related product manufacturing	_	4	2	е	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	_	78	11	1 563	49 058	1 218	1 981	32 236	205 843	128 329	338 011	8 104
3391	Medical equipment and supplies manufacturing	_	34	6	1 300 f	43 030 D	D D	D	02 200 D	203 040 D	D	D	D 104
33911	Medical equipment and												
339113	supplies manufacturing Surgical appliance and supplies manufacturing	_	34	6	f f	D D	D D	D D	D D	D D	D D	D D	D D
3399	Other miscellaneous manufacturing	1	44	5	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	_	12	3	е	D	D	D	D	D	D	D	D
339991	Gasket, packing, and sealing device manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
	SIOUX CITY-VERMILLION, IA- NE-SD COMBINED STATISTICAL AREA												
31-33	Manufacturing	_	183	84	j	D	D	D	D	D	D	D	D

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SIOUX C NE-SD STATIS 311 Food m 3111 Anima 31111 Anima 31161 Anima 31161 Anima 311611 Ani 311611 Ani 311612 Manima 31182 Coo 31182 Coo 311821 Coo 311821 Other 31199 Anima	abbreviations and symbols, see		A	JI I	All em	ployees	Pro	oduction wor	kers				
SIOUX C NE-SD STATIS  311 Food m 31111 Anima 31111 Anima 31161 Anima 311611 Ani 311612 M 3118 Baker man 31182 Cor 311821 Cor 3119 Other 31199 Anima			establisl		7.11 0111	picyoco	,		1				
NE-SD   STATIS   Food m   3111   Anima   Ani	graphic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
3111 Anima 31111 Ani 3116 Anima 3116 Anima proc 31161 Ani 311611 Ani 311612 M 3118 Baker man 31182 Cor 311821 Cor 31199 Ali 31199 Ali 311999 Ali 311999 Ali	CITY-VERMILLION, IA- D COMBINED ISTICAL AREA—Con.												
31111 Ani 3116 Anima proc 31161 Ani 311611 Ani 311611 Ani 311612 M 3118 Baker man 31182 Cor 311821 Cor 31199 Ani 31199 Ani 311999 Ani	manufacturing	1	40	30	9 461	253 333	8 236	17 179	202 433	973 495	3 149 169	4 071 966	52 264
3116 Anim proc 31161 Ani 311611 Ani 311612 M 3118 Baker man 31182 Coo 311821 Coo 31199 All 311999 All 31199 All 311999 All 311999 All 311999 All 31199 All	nal food manufacturing	-	6	3	е	D	D D	D	D	D	D	D	D D
31161 Ani 311611 A 311612 M 3118 Baker man 31182 Coo 311821 Co 3119 Other 31199 All 311999 All	nimal food manufacturing nal slaughtering and scessing	1	16	13	e 6 851	D 177 675	6 026	D 13 256	D 147 942	D 646 785	D 2 318 800	D 2 908 287	34 260
311611 A 311612 N 3118 Baker man 31182 Coo min 311821 C 3119 Other 31199 AII 31199 AII	nimal slaughtering and processing	1	16	13	6 851	177 675	6 026	13 256	147 942	646 785	2 318 800	2 908 287	34 260
311612 A 3118 Baker man 31182 Coo 311821 C 3119 Other 31199 AH 311999 AH	Animal (except poultry) slaughtering	1	8	7	0 051 i	177 075 D	0 020 D	13 230 D	147 942 D	040 785 D	2 310 000 D	2 900 207 D	19 327
31182 Cor 311821 C 3119 Other 31199 All 311999 All	Meat processed from carcasses	3	7	5	f	D	D	D		D	D	D	D
311821 mi 3119 Other 31199 All 311999 A	eries and tortilla nufacturing	_	7	5	f	D	D	D	D	D	D	D	D
3119 Other 31199 All 311999 A	ookie, cracker, and pasta nanufacturing	_	1	1	е	D	D	D	D	D	D	D	D
31199 All A	Cookie and cracker manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
311999 A	er food manufacturing	1	6	5	1 451	33 619	1 310	2 131	26 406	174 283	173 866	347 625	4 776
	I other food manufacturing All other miscellaneous food	1	6	5	1 451	33 619	1 310	2 131	26 406	174 283	173 866	347 625	4 776
	manufacturing	1	4	4	g	D	D	D	D	D	D	D	D
3222 Conv	manufacturingverted paper product nufacturing	_	4	3	e e	D D	D D	D D	D D	D D	D D	D D	D D
	aperboard container					D		D		J	D	D	D
322211 m	nanufacturing	-	3	2	е	D	D	D	D	D	D	D	D
	box manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
	cal manufacturing	_	9	4	564	26 777	339	767	14 821	93 905	137 476	232 364	9 871
agric	ticide, fertilizer, and other ricultural chemical nufacturing	_	4	3	е	D	D	D	D	D	D	D	D
	ertilizer manufacturing	-	4	3	е	D	D	D	D	D	D	D	D
prep	er chemical product and paration manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
325998 pr	I other chemical product and preparation manufacturing All other miscellaneous chemical product and preparation manufacturing .	_	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
326 Plastics	s and rubber products	1	10	5	334	9 839	273	552	6 783	19 043	24 644	44 019	2 878
	itics product manufacturing	1	7	5	е	D	D	D	D	D	D	D	D
32619 Oth	ther plastics product		_										
326199 A	nanufacturing	2	5	4	e e	D D	D D	D D	D D	D D	D D	D D	D D
332 Fabrica	ated metal product	2	20	6	f	D	D	D	D	D	D	D	D
3323 Archit	nitectural and structural metals nufacturing	4	9	2	e	D	D	D	D	D	D	D	D
	ate work and fabricated												
332312 ma	structural product nanufacturing Fabricated structural metal manufacturing	4	5 5	2	304 304	9 453 9 453	167 167	366 366	4 480 4 480	11 495 11 495	33 046 33 046	47 373 47 373	548 548
	nery manufacturing	2	26	13	f	D	D	D	D	D	D	D	D
	er general purpose machinery nufacturing	1	10	8	443	16 504	302	615	9 726	51 934	45 784	107 501	2 205
	uter and electronic product ifacturing	_	4	2	f	D	D	D	D	D	D	D	D
3341 Comp	nputer and peripheral uipment manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33411 Cor 334111 E		1	I	ı l					I				

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	aning of abbreviations and symbols, see		A establisl	JI I	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	SIOUX CITY-VERMILLION, IA- NE-SD COMBINED STATISTICAL AREA—Con.												
336	Transportation equipment manufacturing	-	7	4	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	-	6	4	f	D	D	D	D	D	D	D	D
33621 336212	Motor vehicle body and trailer manufacturing	_	6 6	4 4	f f	D D	D D	D D	D D	D D	D D	D D	D D
	Sioux City, IA-NE-SD Metropolitan Statistical Area												
31-33	Manufacturing	-	171	80	14 546	406 257	11 889	24 346	292 454	3 068 076	4 911 723	7 943 200	89 240
311	Food manufacturing	1	40	30	9 461	253 333	8 236	17 179	202 433	973 495	3 149 169	4 071 966	52 264
3111 31111	Animal food manufacturing  Animal food manufacturing	_	6	3	e e	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	1	16	13	6 851	177 675	6 026	13 256	147 942	646 785	2 318 800	2 908 287	34 260
31161	Animal slaughtering and processing	1	16	13	6 851	177 675	6 026	13 256	147 942	646 785	2 318 800	2 908 287	34 260
311611 311612	Animal (except poultry) slaughtering Meat processed from carcasses	1	8 7	7 5	i f	D D	D D	D D	D D	D D	D D	D D	19 327 D
3118	Bakeries and tortilla manufacturing	_	7	5	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing	_	1	1	е	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	1	6	5	1 451	33 619	1 310	2 131	26 406	174 283	173 866	347 625	4 776
31199	All other food manufacturing	1	6	5	1 451	33 619	1 310	2 131	26 406	174 283	173 866	347 625	4 776
311999	All other miscellaneous food manufacturing	1	4	4	g	D	D	D	D	D	D	D	D
322	Paper manufacturing	-	4	3	е	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	4	3	е	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	-	3	2	е	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	9	4	564	26 777	339	767	14 821	93 905	137 476	232 364	9 871
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	_	4	3	е	D	D	D	D	D	D	D	D
32531	Fertilizer manufacturing	-	4	3	е	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
32599 325998	All other chemical product and preparation manufacturing All other miscellaneous	-	1	1	е	D	D	D	D	D	D	D	D
	chemical product and preparation manufacturing .	-	1	1	е	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	10	5	334	9 839	273	552	6 783	19 043	24 644	44 019	2 878
3261	Plastics product manufacturing	1	7	5	е	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	2	5	4	е	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	2	5	4	е	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	18	6	547	16 504	362	731	9 168	27 902	47 286	76 966	1 315
3323	Architectural and structural metals manufacturing	4	8	2	е	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing	4	5	2	304	9 453	167	366	4 480	11 495	33 046	47 373	548
332312	Fabricated structural metal manufacturing	4	5	2	304	9 453	167	366	4 480	11 495	33 046	47 373	548
333	Machinery manufacturing	2	24	13	816	30 935	511	1 042	16 553	80 262	75 591	166 621	3 446
3339	Other general purpose machinery manufacturing	1	10	8	443	16 504	302	615	9 726	51 934	45 784	107 501	2 205

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For me	aning of abbreviations and symbols, see	e intro											
			establis	III hments <sup>2</sup>	All em	oloyees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	SIOUX CITY-VERMILLION, IA- NE-SD COMBINED STATISTICAL AREA—Con.												
	Sioux City, IA-NE-SD Metropolitan Statistical Area —Con.												
334	Computer and electronic product manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33411 334111	Computer and peripheral equipment manufacturing Electronic computer manufacturing	-	1	1	f	D D	D D	D D	D D	D	D D	D D	D D
336	Transportation equipment manufacturing	_	7	4	, f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	_	6	4	, ,	D	D	D	D	D	D	D	D
33621 336212	Motor vehicle body and trailer manufacturing Truck trailer manufacturing	_	6 6	4 4	f	D D	D	D	D D	D	D	D D	D D
300212	BURLINGTON, IA-IL MICROPOLITAN STATISTICAL AREA			7	, i	D		J	D			D	D
31-33	Manufacturing	-	68	26	5 751	216 397	4 115	8 404	155 809	542 814	589 037	1 157 876	25 316
311 3118	Food manufacturing	_	6	3	f	D	D	D	D	D	D	D D	D
31182	manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D	D D
311821	manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	_	11	3	613	20 211	492	1 131	15 749	95 427	78 862	174 551	D
3273	Cement and concrete product manufacturing	_	8	1	е	D	D	D	D	D	D	D	D
32739 327390	Other concrete product manufacturing	_	3	1	е	D	D	D	D	D	D	D	D
332	Other concrete product manufacturing	-	3	1	е	D	D	D	D	D	D	D	D
	Fabricated metal product manufacturing	-	9	4	1 123	33 009	575	1 092	19 603	88 844	13 410	102 248	825
3329	Other fabricated metal product manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33299 332993	All other fabricated metal product manufacturing Ammunition (except small	-	1	1	f	D	D	D	D	D	D	D	D
333	arms) manufacturing  Machinery manufacturing	_	1 6	1 4	f f	D D	D D	D D	D D	D D	D D	D D	D 1 137
3331	Agriculture, construction, and mining machinery manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	_	5	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment												
334220	manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
335	manufacturing  Electrical equipment, appliance, and	_	3	3	f	D	D	D	D	D	D	D	D
3353	component manufacturing  Electrical equipment	_	1	1	f	D	D	D	D	D	D	D	D
33531	manufacturing  Electrical equipment	_	1	1	f	D	D	D	D	D	D	D	D
335313	manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D

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For me	aning of abbreviations and symbols, see	e intr	oductory to	ext]									
			establis	ll hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	BURLINGTON, IA-IL MICROPOLITAN STATISTICAL AREA—Con.												
336	Transportation equipment manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
	CEDAR RAPIDS, IA METROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	_	294	100	19 486	960 448	9 520	18 977	399 712	3 100 020	2 403 011	5 829 417	186 874
311	Food manufacturing	-	30	15	3 779	210 754	2 856	6 441	151 501	1 877 256	1 392 086	3 269 237	121 936
3112 31122	Grain and oilseed milling  Starch and vegetable fats and	-	8	7	2 243	128 954	1 685	3 924	92 001	993 446	1 098 319	2 095 781	46 919
311221	oils manufacturing Wet corn milling	_	6 3	5 3	f f	D D	D D	D D	D D	D D	D D	D D	D 33 989
31123 311230	Breakfast cereal manufacturing Breakfast cereal	-	2	2	g	D	D	D	D	D	D	D	D
3114	manufacturing  Fruit and vegetable preserving	-	2	2	g	D	D	D	D	D	D	D	D
	and specialty food manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
31141 311412	Frozen food manufacturing Frozen specialty food manufacturing	-	1	1	e e	D D	D D	D D	D D	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
311423	Dried and dehydrated food manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	-	3	3	382	16 294	288	642	10 847	25 223	81 846	108 175	D
3222	Converted paper product manufacturing	-	3	3	382	16 294	288	642	10 847	25 223	81 846	108 175	D
32221 322211	Paperboard container manufacturing	_	3	3	382	16 294	288	642	10 847	25 223	81 846	108 175	D
322211	box manufacturing	-	3	3	382	16 294	288	642	10 847	25 223	81 846	108 175	D
323	Printing and related support activities	-	36	11	1 019	34 190	713	1 321	19 462	73 725	54 989	130 090	2 180
3231	Printing and related support activities	-	36	11	1 019	34 190	713	1 321	19 462	73 725	54 989	130 090	2 180
32311 323110	Printing Commercial lithographic	-	34	10	f 450	D 17 378	D	D	D 10.050	D 20 050	D 01 700	D 59 407	D
323113	printing	1	11 14	5 5	452 444	13 101	340 282	754 407	10 059 6 891	38 056 28 679	21 728 30 333	60 756	893 828
326	Plastics and rubber products manufacturing	_	12	5	718	28 522	594	1 142	22 173	89 760	82 815	172 204	5 628
3261	Plastics product manufacturing	-	11	5	f	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	_	3	2	e	D	D	D	D	D	D	D	D
326111 32619	Plastics bag manufacturing Other plastics product	-	1	1	е	D	D	D	D	D	D	D	D
004	manufacturing	_	7	3	е	D	D	D	D	D	D	D	D
331 3314	Primary metal manufacturing  Nonferrous metal (except aluminum) production and	_	3	2	е	D	D	D	D	D	D	D	D
33142	processing	-	2	1	е	D	D	D	D	D	D	D	D
331421	extruding, and alloying Copper rolling, drawing, and	-	1	1	е	D	D	D	D	D	D	D	D
	extruding	I –	1	1 1	е	D	l D	D	l D	D	l D	l D	D

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	aning of appreviations and symbols, see	- 111111	A	JI I	All em	ployees	Pro	oduction worl	kers				
NAICS			establis		Allelli	pioyees		Jauction won	Keis				
code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	CEDAR RAPIDS, IA METROPOLITAN STATISTICAL AREA—Con.												
332	Fabricated metal product manufacturing	1	57	20	1 256	45 355	883	1 781	26 702	99 361	96 248	193 367	4 873
3323	Architectural and structural metals manufacturing	1	14	8	514	18 362	344	702	10 904	44 011	52 298	96 395	918
33231	Plate work and fabricated structural product manufacturing	1	8	4	291	9 414	224	439	6 318	28 626	40 272	68 726	526
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	28	9	461	16 385	334	635	9 930	37 547	22 055	57 611	2 987
33271 332710	Machine shops	_ _	22 22	6 6	273 273	9 722 9 722	183 183	352 352	5 486 5 486	21 557 21 557	15 876 15 876	35 554 35 554	2 268 2 268
333	Machinery manufacturing	1	39	18	1 824	86 534	1 021	2 104	39 785	181 215	142 224	330 252	16 376
3331	Agriculture, construction, and mining machinery manufacturing	_	7	4	476	23 341	251	512	10 422	47 540	63 931	113 412	D
33312	Construction machinery manufacturing	_	2	2	е	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	2	2	е	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	2	12	5	433	22 085	264	577	11 930	44 799	17 680	62 114	1 773
33351	Metalworking machinery manufacturing	2	12	5	433	22 085	264	577	11 930	44 799	17 680	62 114	1 773
3339	Other general purpose machinery manufacturing	_	6	5	591	27 236	350	693	12 760	60 594	37 246	102 871	1 354
33399	All other general purpose machinery manufacturing	_	3	3	е	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	_	9	4	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	5	3	i	D	D	D	D	D	D	D	D
33451 334511	Navigational, measuring, electromedical, and control instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical	-	5	3	i	D	D	D	D	D	D	D	D
	system and instrument manufacturing	_	2	2	i	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	1	6	2	389	13 404	274	536	7 707	26 249	22 657	48 728	1 222
3363	Motor vehicle parts manufacturing	_	3	1	е	D	D	D	D	D	D	D	D
33637 336370	Motor vehicle metal stamping Motor vehicle metal	-	1	1	е	D	D	D	D	D	D	D	D
	stamping	_	1	1	e	D	D	D	D	D	D	D	D
339 3399	Miscellaneous manufacturing Other miscellaneous	2	27	4	452	14 837	276	582	6 501	35 539	26 319	62 530	1 429
5555	manufacturing	ا –	16	3	343	11 570	207	446	4 580	26 951	24 305	51 964	1 068

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For me	aning of abbreviations and symbols, see	intro	oductory to							-			
			establis	hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	CLINTON, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	1	57	26	4 492	171 199	3 598	7 541	124 153	1 355 105	1 114 079	2 454 703	40 343
311	Food manufacturing	-	7	4	965	49 916	708	1 587	33 515	655 988	572 492	1 215 269	19 758
3111	Animal food manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
31111 311111	Animal food manufacturing Dog and cat food manufacturing	_	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
3112	Grain and oilseed milling	_	1	1	f	D	D	D	D	D	D	D	D
31122 311221	Starch and vegetable fats and oils manufacturing Wet corn milling	- -	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
325	Chemical manufacturing	_	3	2	е	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	8	6	4	1 389	37 926	1 189	2 276	29 102	115 241	88 797	203 862	6 538
3261	Plastics product manufacturing	8	6	4	1 389	37 926	1 189	2 276	29 102	115 241	88 797	203 862	6 538
32611 326113	Plastics packaging materials and unlaminated film and sheet manufacturing	9	1	1	e	D	D	D	D	D	D	D	D
	sheet (except packaging) manufacturing	9	1	1	е	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	7	5	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	7	5	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	-	5	1	е	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
32721 327211	Glass and glass product manufacturing Flat glass manufacturing	_ _	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	6	16	5	662	21 705	562	1 264	17 601	77 219	24 298	102 606	6 665
3326	Spring and wire product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
	DAVENPORT-MOLINE-ROCK ISLAND, IA-IL METROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	_	436	156	24 671	965 683	17 893	35 778	623 952	3 766 353	3 881 457	7 604 788	193 973
311	Food manufacturing	_	38	11	5 733	176 152	4 343	9 255	123 175	812 011	1 245 711	2 040 336	33 445
3111	Animal food manufacturing	_	6	2	е	D	D	D	D	D	D	D	D
31111 311111	Animal food manufacturing Dog and cat food manufacturing	-   -	6 3	2	e e	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	_	9	5	4 175	121 181	3 646	8 022	98 796	443 051	960 992	1 403 694	D
31161	Animal slaughtering and processing	_	9	5	4 175	121 181	3 646	8 022	98 796	443 051	960 992	1 403 694	D
311611	Animal (except poultry) slaughtering	_	5	2	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	_	3	2	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	_	12	2	g	D	D	D	D	D	D	D	D
31181 311812	Bread and bakery product manufacturing	_ _	12 1	2 1	g f	D D	D D	D D	D D	D D	D D	D D	D D

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For me	aning of abbreviations and symbols, see	e intro											
			A establish	.II hments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DAVENPORT-MOLINE-ROCK ISLAND, IA-IL METROPOLITAN STATISTICAL AREA—Con.												
315	Apparel manufacturing	9	9	2	е	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	9	8	2	е	D	D	D	D	D	D	D	D
31522 315222	Men's and boys' cut and sew apparel manufacturing Men's and boys' cut and sew suit, coat, and overcoat	9	1	1	е	D	D	D	D	D	D	D	D
316	manufacturing	9	1	1	е	D	D	D	D	D	D	D	D
	Leather and allied product manufacturing	_	2	1	е	D	D	D	D	D	D	D	D
3162 31621	Footwear manufacturing  Footwear manufacturing	_	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
316211	Rubber and plastics footwear manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	7	16	5	323	9 034	262	521	6 301	17 784	23 148	41 094	718
322	Paper manufacturing	2	5	4	446	13 215	345	771	7 331	33 893	38 056	72 044	D
3222	Converted paper product manufacturing	2	5	4	446	13 215	345	771	7 331	33 893	38 056	72 044	D
32221	Paperboard container	1	3	2	е	D	D	D	D	D	D	D	D
322211	manufacturing Corrugated and solid fiber box manufacturing	-	2	1	е	D	D	D	D	D	D	D	D
323	Printing and related support activities	_	38	4	800	26 265	538	1 049	16 910	63 634	35 669	99 431	D
3231	Printing and related support activities	_	38	4	800	26 265	538	1 049	16 910	63 634	35 669	99 431	D
32311 323117	Printing Books printing	_ _	36 1	4 1	f e	D D	D D	D D	D D	D D	D D	D D	D D
325	Chemical manufacturing	_	11	4	861	41 986	633	1 035	24 353	180 152	167 864	345 945	13 471
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material and resin manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	r18	10	<sup>r</sup> 592	r17 598	r495	r1 050	r13 329	r49 487	r62 992	r113 383	r2 045
3261	Plastics product manufacturing	1	r14	8	r496	r14 280	r424	r905	r11 017	r44 005	r56 772	r101 685	D
32619	Other plastics product manufacturing	_	r11	6	е	D	D	D	D	D	D	D	D
326199	manufacturing	_	r10	5	r326	r9 005	r285	r594	<sup>1</sup> 7 059	r26 280	r22 929	r49 838	D
327	Nonmetallic mineral product manufacturing	_	19	8	521	19 101	413	840	13 111	88 046	47 907	134 264	7 001
3273	Cement and concrete product manufacturing	-	18	7	е	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	_	15	9	h	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	_	3	3	h	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing	_	3	3	h	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	_	3	3	h	D	D	D	D	D	D	D	D
3315	Foundries	-	11	5	f	D	D	D	D	D	D	D	2 874
33151 331511 33152	Ferrous metal foundries	- - -	3 3 8	2 2 3	f f 314	D D 11 028	D D 250	D D 579	D D 7 352	D D 28 030	D D 14 844	D D 42 944	D D D

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For me	aning of abbreviations and symbols, see	e intro	auctory te										
			establis	nments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DAVENPORT-MOLINE-ROCK ISLAND, IA-IL METROPOLITAN STATISTICAL AREA—Con.												
332	Fabricated metal product manufacturing	1	r114	44	r3 058	r105 234	r2 282	r4 680	r68 343	r259 627	r160 319	r412 743	r14 374
3321	Forging and stamping	_	9	5	411	13 441	295	610	8 828	31 257	40 261	71 328	2 312
33211	Forging and stamping	-	9	5	411	13 441	295	610	8 828	31 257	40 261	71 328	2 312
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	r48	19	r1 119	r37 247	<sup>r</sup> 919	r1 942	<sup>r</sup> 28 320	<sup>r</sup> 68 798	<sup>7</sup> 42 263	r110 491	D
33271 332710	Machine shops	2	r43 r43	15 15	r863 r863	r28 496 r28 496	r691 r691	r1 432 r1 432	r20 699 r20 699	r49 992 r49 992	r32 457 r32 457	r82 260 r82 260	r2 951 r2 951
33272	Turned product and screw, nut, and bolt manufacturing	_	5	4	256	8 751	228	510	7 621	18 806	9 806	28 231	D
332721	Precision turned product manufacturing	_	4	4	е	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities	_	17	9	450	12 761	362	673	9 197	36 150	26 621	60 544	2 961
33281	Coating, engraving, heat treating, and allied activities	_	17	9	450	12 761	362	673	9 197	36 150	26 621	60 544	2 961
3329	Other fabricated metal product manufacturing	-	17	5	630	27 542	367	802	12 695	89 389	32 239	117 392	3 585
33291 332911	Metal valve manufacturing Industrial valve	-	2	1	е	D	D	D	D	D	D	D	D
33299	manufacturing All other fabricated metal product manufacturing	_	1 15	1 4	e e	D D	D D	D D	D D	D D	D D	D D	D D
333	Machinery manufacturing	_	61	30	6 544	325 608	4 309	7 754	196 423	1 515 844	1 161 771	2 730 606	35 542
3331	Agriculture, construction, and mining machinery manufacturing	_	16	9	4 886	256 482	3 222	5 688	157 931	1 383 872	1 038 855	2 471 045	30 506
33311	Agricultural implement manufacturing	_	10	6	3 397	185 102	2 410	4 137	120 705	884 382	741 767	1 639 699	D
333111	Farm machinery and equipment manufacturing	_	10	6	3 397	185 102	2 410	4 137	120 705	884 382	741 767	1 639 699	D
33312	Construction machinery manufacturing	_	6	3	1 489	71 380	812	1 551	37 226	499 490	297 088	831 346	D
333120	Construction machinery manufacturing	_	6	3	1 489	71 380	812	1 551	37 226	499 490	297 088	831 346	D
3332	Industrial machinery manufacturing	_	5	3	304	15 472	147	227	5 762	30 364	20 011	49 193	D
33329 333294	Other industrial machinery manufacturing	_	5	3	304	15 472	147	227	5 762	30 364	20 011	49 193	D
3335	manufacturing  Metalworking machinery	_	2	2	е	D	D	D	D	D	D	D	D
	manufacturing	2	19	8	555	21 828	401	721	13 686	35 343	28 716	65 444	1 854
33351 333515	Metalworking machinery manufacturing  Cutting tool and machine tool	2	19	8	555	21 828	401	721	13 686	35 343	28 716	65 444	1 854
3339	accessory manufacturing Other general purpose machinery	1	6	2	282	9 432	197	286	5 101	14 138	13 507	28 471	D
33392	manufacturing	1	13	5	496	20 884	325	659	12 022	36 289	53 937	94 954	D
334	manufacturing	1	3	2	е	D	D	D	D	D	D	D	D
	manufacturing	1	7	4	263	7 920	139	205	2 483	23 834	21 366	45 339	D
336	Transportation equipment manufacturing	_	12	3	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	-	2	1	е	D	D	D	D	D	D	D	D
33621 336212	Motor vehicle body and trailer manufacturing	_	2 1	1 1	e e	D D	D D	D D	D D	D D	D D	D D	D D
337	Furniture and related product manufacturing	3	21	6	327	9 477	250	528	5 662	19 083	16 131	35 173	D
339	Miscellaneous manufacturing	2	32	8	393	13 749	259	510	6 720	29 611	12 969	41 644	D

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For me	aning of abbreviations and symbols, see	e intre	A				_						
			establis	nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DUBUQUE, IA METROPOLITAN STATISTICAL AREA												
31-33 311	Manufacturing  Food manufacturing	-  -	144 14	61 5	8 872 572	331 840 18 690	5 933 294	11 380 511	201 997 9 496	1 222 906 47 964	1 272 984 125 366	2 493 771 168 253	56 868 3 647
321	Wood product manufacturing	_	11	6	998	28 487	683	1 463	17 572	80 667	65 324	147 483	1 387
3212	Veneer, plywood, and engineered wood product manufacturing	_	4	3	428	13 853	303	646	7 843	42 943	32 893	75 707	659
32121 321214	Veneer, plywood, and engineered wood product manufacturing	_	4 3	3 2	428 e	13 853 D	303 D	646 D	7 843 D	42 943 D	32 893 D	75 707 D	659 D
3219	Other wood product manufacturing	_	6	3	f	D	D	D	D	D	D	D	D
32191 321911	Millwork	_ _	4 2	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
322	Paper manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
32221 322211	Paperboard container manufacturing Corrugated and solid fiber box manufacturing	-	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
323	Printing and related support activities	1	20	5	670	20 130	509	917	14 672	51 179	22 267	72 297	15 390
3231	Printing and related support activities	1	20	5	670	20 130	509	917	14 672	51 179	22 267	72 297	15 390
32311 323117	Printing Books printing	_ _	16 1	4 1	f e	D D	D D	D D	D D	D D	D D	D D	D D
326	Plastics and rubber products manufacturing	3	9	5	373	11 464	304	660	8 748	24 949	42 074	66 932	2 816
3261	Plastics product manufacturing	4	5	3	279	8 277	232	494	6 355	12 920	26 381	39 309	D
332	Fabricated metal product manufacturing	_	28	14	1 472	49 662	1 116	2 091	35 766	100 967	105 903	207 878	7 613
3321	Forging and stamping	3	2	2	е	D	D	D	D	D	D	D	D
33211 332116	Forging and stamping  Metal stamping	3	2 2	2 2	e e	D D	D D	D D	D D	D D	D D	D D	D D
3329	Other fabricated metal product manufacturing	_	7	5	794	27 277	547	1 136	18 203	60 551	57 161	118 382	5 602
33291 332911	Metal valve manufacturing Industrial valve	-	2	2	е	D	D	D	D	D	D	D	D
33299	manufacturing All other fabricated metal product manufacturing	_	5	2	e e	D D	D D	D D	D D	D D	D D	D D	D D
332999	All other miscellaneous fabricated metal product												
333	manufacturing	_	14	3 8	e g	D D	D D	D D	D D	D D	D D	D D	D 9 992
3331	Agriculture, construction, and mining machinery manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing		1	1		D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1	g g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	1	5	4	389	13 387	321	583	10 680	26 985	32 141	58 575	D
3363	Motor vehicle parts manufacturing	1	3	3	е	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
337 3371	Furniture and related product manufacturing	_	12	1	558	27 082	290	596	9 730	29 072	32 608	61 685	D
JJ/ I	furniture and kitchen cabinet manufacturing	_	9	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing	_	1	1	f		D	D	D	D	D	D	D

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For file	aning of abbreviations and symbols, see		establis	ui I	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry			With 20 em- ploy- ees or		Payroll		Hours	Wages	Value added	Total cost of materials	Total value of shipments	Total capital expendi- tures
		E <sup>1</sup>	Total	more	Number <sup>3</sup>	(\$1,000)	Number <sup>4</sup>	(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
	DUBUQUE, IA METROPOLITAN STATISTICAL AREA—Con.												
339	Miscellaneous manufacturing	-	11	4	603	20 016	368	702	9 515	55 138	33 917	87 996	D
3391	Medical equipment and supplies manufacturing	-	5	3	532	18 026	323	627	8 469	49 466	30 882	79 326	D
33911 339111	Medical equipment and supplies manufacturing Laboratory apparatus and furniture manufacturing	-	5 1	3	532 e	18 026 D	323 D	627 D	8 469 D	49 466 D	30 882 D	79 326 D	D D
	FORT DODGE, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	_	52	14	2 154	79 941	1 375	3 086	48 264	613 126	436 587	1 034 648	40 811
311	Food manufacturing	-	9	3	е	D	D	D	D	D	D	D	4 440
325	Chemical manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	_	8	4	f	D	D	D	D	D	D	D	D
3274	Lime and gypsum product manufacturing	_	4	4	е	D	D	D	D	D	D	D	D
32742	Gypsum product manufacturing	_	4	4	е	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing	-	4	4	е	D	D	D	D	D	D	D	D
	IOWA CITY, IA METROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	115	32	5 916	201 084	4 323	8 158	140 239	3 143 892	1 501 719	4 619 771	78 779
311	Food manufacturing	-	17	6	441	15 733	257	543	8 841	151 818	136 403	288 245	3 316
322	Paper manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
323	Printing and related support activities	_	15	5	738	22 315	366	713	10 399	65 322	34 558	100 341	4 696
3231	Printing and related support activities	_	15	5	738	22 315	366	713	10 399	65 322	34 558	100 341	4 696
32311	Printing	-	15	5	738	22 315	366	713	10 399	65 322	34 558	100 341	4 696
323110 323116	Commercial lithographic printing	-	4	3	368	11 711	214	436	5 856	26 724	12 982	39 989	3 151
	printing	-	1	1	е	D	D	D	D	D	D	D	D
325 3256	Chemical manufacturing  Soap, cleaning compound, and	_	3	1	f	D	D	D	D	D	D	D	D
20500	toilet preparation manufacturing.	-	1	1	f	D	D	D	D	D	D	D	D
32562 325620	Toilet preparation manufacturing Toilet preparation manufacturing	-	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
326	Plastics and rubber products manufacturing		9	5	1 583	47 809	1 219	2 586	37 840	74 208	106 751	181 139	14 754
3261	Plastics product manufacturing	_	9	5	1 583	47 809	1 219	2 586	37 840	74 208	106 751	181 139	14 754
32614	Polystyrene foam product manufacturing		2	2	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing	_	2	2	f	D	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	_	6	3	f	D	D	D	D	D	D	D	D

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	I	J		- T									
			establis	III hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA CITY, IA METROPOLITAN STATISTICAL AREA—Con.												
334	Computer and electronic product manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33451 334511	Navigational, measuring, electromedical, and control instruments manufacturing Search, detection, navigation, guidance	_	2	1	f	D	D	D	D	D	D	D	D
	navigation, guidance, aeronautical, and nautical system and instrument manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	18	2	698	31 385	537	1 068	22 108	105 120	60 227	166 410	D
3399	Other miscellaneous manufacturing	_	5	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
339994	Broom, brush, and mop manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	KEOKUK-FORT MADISON, IA- MO MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	_	76	33	5 110	195 262	3 963	7 930	134 717	768 612	563 419	1 335 048	48 330
311	Food manufacturing	_	5	4	1 070	52 599	727	1 538	31 393	171 221	186 638	360 757	D
3112	Grain and oilseed milling	_	3	3	f	D	D	D	D	D	D	D	D
31122 311221	Starch and vegetable fats and oils manufacturing Wet corn milling	_ _	3	3	f f	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	_	1	1	е	D	D	D	D	D	D	D	D
31161 311612	Animal slaughtering and processing	- -	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
322	Paper manufacturing	_	4	3	266	12 335	225	264	8 109	35 185	41 847	76 918	D
325	Chemical manufacturing	-	6	4	473	23 315	360	783	16 107	233 193	112 806	345 775	6 342
326	Plastics and rubber products manufacturing	_	5	4	1 127	37 176	928	1 930	27 779	93 210	64 472	159 302	4 844
3262	Rubber product manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
32629 326291	Other rubber product manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
	manufacturing for mechanical use	_	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	_	4	3	f	D	D	D	D	D	D	D	D
3315	Foundries	_	4	3	f	D	D	D	D	D	D	D	D
33151 331513	Ferrous metal foundries	-	2 2	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	_	23	8	869	22 520	670	1 255	15 566	93 590	92 262	186 038	D
3329	Other fabricated metal product manufacturing	_	6	2	e	D	D	D	D	D	D	D	D
33299 332999	All other fabricated metal product manufacturing All other miscellaneous	_	6	2	e	D	D	D	D	D	D	D	D
552555	fabricated metal product manufacturing	_	4	2	е	D	D	D	D	D	D	D	D

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	laning of appreviations and symbols, see		establis	ui I	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	MARSHALLTOWN, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	_	47	15	5 398	193 555	3 938	7 873	111 735	1 058 620	794 714	1 860 197	17 315
311	Food manufacturing	-	3	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
311611	Animal (except poultry) slaughtering	_	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	9	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product	ľ			9								_
33291	manufacturing  Metal valve manufacturing	_	2	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
332911	Industrial valve manufacturing	_	' '	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	8	4	9	D	D	D	D	D	D	D	2 414
3334	Ventilation, heating, air- conditioning, and commercial refrigeration equipment manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air- conditioning, and commercial				y	J	D	D		D			D
333415	refrigeration equipment manufacturing Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment	-	2	2	g	D	D	D	D	D	D	D	D
	manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
	MASON CITY, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	69	27	4 091	130 847	3 132	5 772	91 257	411 694	499 132	906 223	28 534
311 3116	Food manufacturing  Animal slaughtering and	_	13	7	595	18 230	465	980	12 027	81 272	233 043	313 995	5 761
	processing	-	3	2	е	D	D	D	D	D	D	D	D
31161 311612	Animal slaughtering and processing	-	3	2	е	D	D	D	D	D	D	D	D
	carcasses	-	2	2	е	D	D	D	D	D	D	D	D
321	Wood product manufacturing	_	5	2	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	_	4	2	f	D	D	D	D	D	D	D	D
32191 321911	Millwork	_	2	2	f	D	D	D	D	D	D	D	D
327	manufacturing  Nonmetallic mineral product	_	2	2	f	D	D	D	D	D	D	D	D
	manufacturing	-	9	4	420	17 780	333	672	13 579	86 335	55 635	138 499	10 048
3273	Cement and concrete product manufacturing	_	7	4	е	D	D	D	D	D	D	D	10 048
32731 327310	Cement manufacturing Cement manufacturing	_	2 2	2 2	e e	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	_	6	2	g	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	_	3	2	g	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products												
332321	manufacturing	-	2	2	g g	D D	D D	D D	D D	D D	D D	D D	D D
333	Machinery manufacturing	-	5	2	е	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air- conditioning, and commercial refrigeration equipment manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air- conditioning, and commercial				Ü			5					5
333415	refrigeration equipment manufacturing Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment	-	1	1	е	D	D	D	D	D	D	D	D
	manufacturing	. –	1 1	1	е	D	D	D	l D	D	l Di	l D	D

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For me	aning of abbreviations and symbols, see	e intro											
			establis	II hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	MUSCATINE, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	84	42	9 399	333 982	7 393	14 837	234 153	2 008 990	1 737 249	3 753 029	66 055
311	Food manufacturing	1	10	6	3 979	127 311	3 160	6 583	87 261	334 853	668 079	1 007 313	33 504
3112	Grain and oilseed milling	-	1	1	f	D	D	D	D	D	D	D	D
31122 311221	Starch and vegetable fats and oils manufacturing Wet corn milling	_ _	1 1	1 1	f f	D D	D D	D D	D D	D D	D D	D D	D D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
31142 311421	Fruit and vegetable canning, pickling, and drying Fruit and vegetable canning .	_ _	1 1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	3	4	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	3	4	2	a	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	_	2	1	g g	D	D	D	D	D	D	D	D
311615	Poultry processing	9	1	1	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	4	1	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
32532 325320	Pesticide and other agricultural chemical manufacturing	_	1	1	f	D D	D D	D D	D D	D	D	D D	D D
326	Plastics and rubber products manufacturing	_	9	8	528	12 609	459	920	10 133	39 402	42 855	83 865	1 088
3261	Plastics product manufacturing	_	7	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	_	5	5	370	7 845	322	645	6 153	23 695	20 312	45 129	569
326199	All other plastics product manufacturing	_	5	5	370	7 845	322	645	6 153	23 695	20 312	45 129	569
331	Primary metal manufacturing	_	4	2	f	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33111 331111	Iron and steel mills and ferroalloy manufacturing Iron and steel mills	_ _	2 2	2 2	f f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	-	12	3	283	9 053	242	524	7 184	16 661	9 831	26 247	259
333	Machinery manufacturing	-	6	3	365	15 558	200	429	9 573	23 422	65 083	89 542	1 456
3339	Other general purpose machinery manufacturing	_	2	2	е	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	_	2	1	e	D	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
33512 335129	Lighting fixture manufacturing Other lighting equipment manufacturing	-	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
337	Furniture and related product manufacturing	_	7	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	_	5	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing		5	5	g	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing	_	3	3	g f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing	_	2	2	g	D	D	D	D	D	D	D	D

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	aning of abbreviations and symbols, see	5 II ILI	Α	ul I	A.II		D.						
			establis	hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	OSKALOOSA, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	1	28	8	822	29 383	668	1 404	21 687	100 621	123 103	225 193	6 075
332	Fabricated metal product manufacturing	-	4	3	f	D	D	D	D	D	D	D	2 547
3329	Other fabricated metal product manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
33291 332911	Metal valve manufacturing Industrial valve manufacturing	-	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
	OTTUMWA, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	32	12	4 112	155 225	3 241	7 093	106 333	710 036	1 028 304	1 722 851	51 712
311	Food manufacturing	-	8	5	h	D	D	D	D	D	D	D	D
3112 31122	Grain and oilseed milling  Starch and vegetable fats and	_	2	2	е	D	D	D	D	D	D	D	D
311221	oils manufacturing  Wet corn milling	_	2 2	2 2	e e	D D	D D	D D	D D	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
311611	Animal (except poultry) slaughtering	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	SPENCER, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	29	13	1 294	42 714	1 066	1 947	30 770	118 943	108 154	226 804	5 582
323	Printing and related support activities	-	5	2	е	D	D	D	D	D	D	D	D
3231	Printing and related support activities	-	5	2	е	D	D	D	D	D	D	D	D
32311	Printing	-	5	2	е	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	9	5	260	7 678	206	441	5 200	20 536	13 552	34 045	454
333	Machinery manufacturing	-	4	3	541	21 359	442	841	14 957	61 680	56 486	117 967	2 391
3339	Other general purpose machinery manufacturing	-	2	2	е	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	_	1	1	е	D	D	D	D	D	D	D	D
333996	Fluid power pump and motor manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
	SPIRIT LAKE, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	-	31	8	2 127	70 833	1 620	3 064	43 370	357 127	341 603	721 898	7 292
314	Textile product mills	-	1	1	е	D	D	D	D	D	D	D	D
3149	Other textile product mills	-	1	1	е	D	D	D	D	D	D	D	D
31499 314991	All other textile product mills Rope, cordage, and twine mills	-	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D
336	Transportation equipment manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
33699 336999	Other transportation equipment manufacturing	-	1	1	e e	D D	D D	D D	D D	D D	D D	D D	D D

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Torme	aning of abbreviations and symbols, see	-	A establisl	JI I	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	SPIRIT LAKE, IA MICROPOLITAN STATISTICAL AREA—Con.												
337	Furniture and related product manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional												_
337121	furniture manufacturing Upholstered household furniture manufacturing	_	1	1	f	D D	D D	D D	D D	D D	D D	D D	D D
	STORM LAKE, IA MICROPOLITAN STATISTICAL AREA												
31-33	Manufacturing	1	29	8	2 841	76 905	2 468	5 338	64 496	157 743	629 059	790 867	D
311	Food manufacturing	1	8	4	2 479	66 643	2 184	4 772	57 757	134 158	605 144	743 614	4 235
3116	Animal slaughtering and processing	1	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	1	2	2	g	D	D	D	D	D	D	D	D
311611 311615	Animal (except poultry) slaughtering Poultry processing	_ 9	1 1	1	g f	D D	D D	D D	D D	D D	D D	D D	D D
	WATERLOO-CEDAR FALLS, IA METROPOLITAN STATISTICAL AREA					-			_		_	_	
31-33	Manufacturing	_	210	86	14 921	579 260	11 217	23 781	378 990	2 206 286	2 653 736	4 873 727	140 114
311	Food manufacturing	-	25	10	3 451	95 285	2 981	6 708	76 890	272 964	809 681	1 074 854	37 604
3113	Sugar and confectionery product manufacturing	_	3	1	е	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao												
311320	beans	-	1	1	е	D	D	D	D	D	D	D	D
3116	beans	_	1	1	е	D	D	D	D	D	D	D	D
3110	Animal slaughtering and processing	-	8	3	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	_	8	3	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	5	1	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing	5	4	2	251	7 643	204	393	5 295	30 082	40 392	70 276	D
323	Printing and related support activities	_	24	6	541	17 081	349	630	9 073	38 347	19 557	57 601	2 696
3231	Printing and related support activities	_	24	6	541	17 081	349	630	9 073	38 347	19 557	57 601	2 696
32311	Printing	_	20	6	524	16 292	337	609	8 583	36 671	19 204	55 572	D
323110	Commercial lithographic printing	_	12	5	377	12 459	270	515	7 199	28 649	13 788	41 864	2 449
331	Primary metal manufacturing	_	4	3	е	D	D	D	D	D	D	D	806
3315	Foundries	-	4	3	е	D	D	D	D	D	D	D	806
33151 331511	Ferrous metal foundries Iron foundries	_	4 3	3	e e	D D	D D	D D	D D	D D	D D	D D	806 D
332	Fabricated metal product manufacturing	1	44	19	1 404	49 790	1 075	2 035	35 793	99 877	62 169	167 030	5 603
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	_	21	7	744	28 036	571	1 129	19 743	54 727	39 089	95 244	2 861
33271 332710	Machine shops	1	17 17	5 5	e e	D D	D D	D D	D D	D D	D D	D D	1 887 1 887
33272	Turned product and screw, nut, and bolt manufacturing	_	4	2	e	D	D	D	D	D	D	D	974
332721	Precision turned product manufacturing	_	4	2	е	D	D	D	D	D	D	D	974
3328	Coating, engraving, heat treating, and allied activities	_	8	5	271	7 222	216	323	5 244	20 604	5 520	26 130	1 683
33281	Coating, engraving, heat treating, and allied activities	_	8	5	271	7 222	216	323	5 244	20 604	5 520	26 130	1 683

[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]

			establis	ll hments <sup>2</sup>	All em	oloyees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	WATERLOO-CEDAR FALLS, IA METROPOLITAN STATISTICAL AREA—Con.												
333	Machinery manufacturing	-	26	14	h	D	D	D	D	D	D	D	75 595
3331	Agriculture, construction, and mining machinery manufacturing	-	8	5	h	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing	_	5	4	h	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing	_	5	4	h	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment					5							
333618	manufacturing	_	1	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
3339	Other general purpose machinery manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing	_	1	1	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing	-	1	1	е	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	4	8	4	е	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	-	13	2	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	11	2	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing		8	2		D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing	_	8	2	g g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	19	8	384	11 615	269	495	5 924	28 939	12 512	41 642	1 194
3399	Other miscellaneous manufacturing	1	12	6	286	8 996	197	370	4 357	24 734	10 987	35 902	1 032

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

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.

<sup>89</sup> percent; 9–90 percent or more.

\*\*Includes establishments with payroll at any time during the year.

\*\*Includes establishments with payroll at any time during the year.

\*\*Includes establishments 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–50,000 to 99,999 employees; m–100,000 employees or more.

\*\*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.

# 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]

terms,	and geographical definitions, see note at	t ena	of table.	For Inform	ation on geog	grapnic areas	rollowed by ",	see Append	IIX D. For mea	ning of abbrevia	ations and symbo	ois, see introduc	tory text]
			establis	III hments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	ADAIR												
31-33	Manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
	ALLAMAKEE												
31-33	Manufacturing	6	28	8	1 630	43 253	1 409	2 363	34 868	121 556	238 088	358 273	6 480
311	Food manufacturing	7	6	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	8	2	2	f	D	D	D	D	D	D	D	D
31161 311611	Animal slaughtering and processing	8	2	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
	APPANOOSE												
31-33	Manufacturing	1	18	6	1 198	35 732	1 035	2 121	28 284	101 587	83 584	187 105	D
326	Plastics and rubber products		_	_		_	_	_	_	_	_	_	_
3261	manufacturing	-	2 2	2	f	D D	D D	D D	D D	D D	D D	D D	D D
3201	Plastics product manufacturing	-		2	'	D		U		U		D	D
	BENTON												
31-33	Manufacturing	6	31	6	807	28 992	562	1 120	16 830	83 516	74 705	154 531	4 629
	BLACK HAWK												
31-33	Manufacturing	-	157	64	12 878	506 159	9 712	20 799	330 733	2 058 977	2 275 345	4 353 832	95 932
311	Food manufacturing	-	17	8	h	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	_	6	3	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	_	6	3	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	3	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	34	16	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	18	10	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	4	2	h	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing	_	3	2	h	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing	-	3	2	h	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment												
333618	manufacturing Other engine equipment manufacturing	-	1	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
337	Furniture and related product manufacturing	_	8	2	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	6	2	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and						_	_					
337110	countertop manufacturing Wood kitchen cabinet and countertop manufacturing	_	4	2	g g	D D	D D	D D	D D	D D	D D	D D	D D
	BOONE			_	9							J	
31-33	Manufacturing	_	35	14	f	D	D	D	D	D	D	D	8 604
	BREMER												
31-33	Manufacturing	-	37	17	1 609	60 670	1 149	2 380	39 714	116 611	327 350	438 025	D
	BUCHANAN												
31-33	Manufacturing	_	34	12	1 358	40 337	1 164	2 465	28 861	107 784	206 868	317 022	7 423

[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]

Description of the second relation	terris,	and geographical definitions, see note at	ena			ation on geog	grapnic areas	lollowed by ,	see Append	iix D. For mea	ining of abbrevia	alions and symbo	ois, see introduc	lory text]
Second Column				establisl	.II hments <sup>2</sup>	All em	ployees	Pro	duction work	kers				
Manufacturing		Geographic area and industry	E¹	Total	em- ploy- ees or	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>		Wages (\$1,000)	Value added (\$1,000)	cost of materials	value of shipments	capital expendi- tures
Manufacturing		BUENA VISTA												
Animal blassylething and   1   2   2   2   2   3   5   5   5   5   5   5   5   5   5	31-33		1	29	8	2 841	76 905	2 468	5 338	64 496	157 743	629 059	790 867	D
	311	Food manufacturing	1	8	4	2 479	66 643	2 184	4 772	57 757	134 158	605 144	743 614	4 235
State	3116		1	2	2	g	D	D	D	D	D	D	D	D
Simple   Agriculty   Agriculty   Simple   Agriculty   Agriculty	31161			,	9		D		D	_		_	D	D
STRING   Positify processing   STRING   Position   STRING   Posi	311611	Animal (except poultry)	'											
13-20   Manufacturing	311615	Poultry processing	9			f				Ď				
Note		CARROLL												
Chemical content			-			1 428								
manufacturing		· · · · · · · · · · · · · · · · · · ·	_	2	1	, t	D	ט	ט	D	ט	ט	D	D
Section   Wood wand and offer manufacturing   Section   Section			_		1	f								
CASS   Manufacturing   Sample   Sampl	32191 321911	Wood window and door	_			f								
Second Script   Second Scrip			_	1	1	f	D	D	D	D	D	D	D	D
CEDAR   Manufacturing	21-22		2	22	7	702	20 202	562	1 002	1/ /0/	61 042	51 290	112 106	2 566
Serric   Cerric Ground Compose   Serric Cerric Compose   Serric Cerric Cerric Compose   Serric Cerric Cer	31-33		3	23	,	702	20 302	302	1 092	14 404	61 942	31 200	113 196	2 300
CERRO GORDO   Manufacturing	31-33		_	30	8	654	22 780	497	902	13 720	53 867	86 787	139 123	914
Second manufacturing														
Second Product manufacturing	31-33		_	55	23	3 760	121 543	2 870	5 229	84 959	396 710	472 840	864 708	D
Section   Chemical product   Chemical processing   Chemical proc			_	11		f								
manufacturing			-	4	2	f	D	D	D	D	D	D	D	D
Node window and door	3219		-	4	2	f	D	D	D	D	D	D	D	D
Fabricated metal product   manufacturing   m		Millwork	-			f								
manufacturing	000	, and the second	-	2	2	f	D	D	D	D	D	D	D	D
Manufacturing	332		-	5	2	g	D	D	D	D	D	D	D	D
metal products   metal products   metal products   metal producting   metal producting	3323		_	2	2	g	D	D	D	D	D	D	D	D
Metal window and door manufacturing	33232													
CHEROKEE	332321		_			g								
31-33   Manufacturing   -   17   3   832   27   450   695   1   422   20   474   52   584   83   279   137   415   1   339   331   Food manufacturing   -   3   1   1   1   1   D   D   D   D   D   D		manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
Food manufacturing   Food ma														
31161			_							-				
Processing		Animal slaughtering and	_	3	'									
Processing	21161	processing	-	3	1	f	D	D	D	D	D	D	D	D
CHICKASAW  31-33 Manufacturing		processing	-	3	1	f	D	D	D	D	D	D	D	D
Sample   S	011012		-	1	1	f	D	D	D	D	D	D	D	D
CLARKE  31-33		CHICKASAW												
31-33   Manufacturing   8	31-33	Manufacturing	-	33	9	1 073	32 322	837	1 599	20 801	110 052	180 029	292 099	7 030
Silicolumn		CLARKE												
3116		_				1 056								
Signature   Processing   Signature   Sig		_	9	1	1	f	D	D	D	D	D	D	D	D
Processing   Pro	3110		9	1	1	f	D	D	D	D	D	D	D	D
Animal (except poultry) slaughtering	31161		9	1	1	f	D	D	D	D	D	D	D	D
31-33 Manufacturing 29 13 1 294 42 714 1 066 1 947 30 770 118 943 108 154 226 804 5 582 333 Machinery manufacturing 4 3 541 21 359 442 841 14 957 61 680 56 486 117 967 2 391	311611	Animal (except poultry)	9	1	1	f	D	D	D	D	D	D	D	D
31-33 Manufacturing 29 13 1 294 42 714 1 066 1 947 30 770 118 943 108 154 226 804 5 582 333 Machinery manufacturing 4 3 541 21 359 442 841 14 957 61 680 56 486 117 967 2 391		CLAY												
	31-33		-	29	13	1 294	42 714	1 066	1 947	30 770	118 943	108 154	226 804	5 582
CLAYTON	333	Machinery manufacturing	-	4	3	541	21 359	442	841	14 957	61 680	56 486	117 967	2 391
		CLAYTON												
31-33   Manufacturing	31-33	Manufacturing	1	32	10	1 022	21 522	811	1 472	14 992	49 493	100 753	153 751	9 762

[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]

terms, a	and geographical definitions, see note at	end	of table.	For inform	ation on geo	graphic areas	followed by *,	see Append	lix D. For mea	ining of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	ll hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	CLINTON												
31-33	Manufacturing	1	57	26	4 492	171 199	3 598	7 541	124 153	1 355 105	1 114 079	2 454 703	40 343
311	Food manufacturing	-	7	4	965	49 916	708	1 587	33 515	655 988	572 492	1 215 269	19 758
3112	Grain and oilseed milling	_	1	1	f	D	D	D	D	D	D	D	D
31122 311221	Starch and vegetable fats and oils manufacturing	_ _	1 1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
326	Plastics and rubber products manufacturing	8	6	4	1 389	37 926	1 189	2 276	29 102	115 241	88 797	203 862	6 538
3261	Plastics product manufacturing	8	6	4	1 389	37 926	1 189	2 276	29 102	115 241	88 797	203 862	6 538
32619	Other plastics product manufacturing	7	5	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	7	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	6	16	5	662	21 705	562	1 264	17 601	77 219	24 298	102 606	6 665
	CRAWFORD												
31-33	Manufacturing	-	24	11	2 189	66 896	1 875	4 137	48 407	119 145	834 538	946 292	19 162
311	Food manufacturing	-	8	6	1 983	62 202	1 713	3 872	45 226	107 430	824 328	924 500	D
3116	Animal slaughtering and processing	_	6	5	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and	_	6	5	g	D	D	D	D	D	D	D	D
311611	processing	_	4	3	g	D	D	D	D	D	D	D	D
	DALLAS												
31-33	Manufacturing	_	39	14	2 149	63 489	1 752	3 862	46 068	144 083	273 230	417 223	11 211
311	Food manufacturing	_	3	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						D	D		D	D	D	
311611	processing	_	1	1	g g	D D	D	D	D D	D	D	D	D D
	DELAWARE												
31-33	Manufacturing	3	38	10	1 231	42 919	985	1 832	30 744	62 109	116 688	178 498	3 671
	DES MOINES												
31-33	Manufacturing	_	65	26	i	D	D	D	D	D	D	D	D
311	Food manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	_	4	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing	_	, 1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	_	10	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	_	7	4	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	_	1	1	f f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing	_	1	1	, f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	6	4	f	D	D	D	D	D	D	D	1 137
3331	Agriculture, construction, and												
	mining machinery manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D

[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]

1011110, 1	and geographical definitions, see note at	l	A	.II				oduction wor		aming of abbrevio		510, 000 miliodae	tory toxij
			establis	nments <sup>2</sup>	Allem	ployees	Pic	duction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DES MOINES—Con.												
334	Computer and electronic product manufacturing	_	5	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment			0		6		D					
334220	manufacturing Radio and television broadcasting and wireless communications equipment	_	3	3		D	D		D	D	D	D	D
335	manufacturing  Electrical equipment, appliance, and component manufacturing	_	3	3	f	D D	D D	D D	D D	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			_				-				-	
335313	manufacturing Switchgear and switchboard apparatus manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
336	Transportation equipment manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
	DICKINSON												
31-33	Manufacturing	-	31	8	2 127	70 833	1 620	3 064	43 370	357 127	341 603	721 898	7 292
336	Transportation equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33712 337121	Household and institutional furniture manufacturing Upholstered household	_	1	1	f	D	D	D	D	D	D	D	D
	furniture manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	DUBUQUE			04	0.070	004 040	5 000	44 000	004 007	4 000 000	4 070 004	0 400 774	50,000
31-33 311	Manufacturing	_	144	61 5	8 872 572	331 840 18 690	5 933 294	11 380 511	201 997 9 496	1 222 906 47 964	1 272 984 125 366	2 493 771 168 253	56 868 3 647
321	Wood product manufacturing	_	11	6	5/2 f	10 030 D	D	D	D 730	D 47 304	D	D	1 387
3219	Other wood product manufacturing	_	6	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	20	5	670	20 130	509	917	14 672	51 179	22 267	72 297	15 390
3231	Printing and related support activities	1	20	5	670	20 130	509	917	14 672	51 179	22 267	72 297	15 390
32311	Printing	_	16	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	_	28	14	1 472	49 662	1 116	2 091	35 766	100 967	105 903	207 878	7 613
3329	Other fabricated metal product manufacturing	_	7	5	794	27 277	547	1 136	18 203	60 551	57 161	118 382	5 602
333	Machinery manufacturing	-	14	8	g	D	D	D	D	D	D	D	9 992
3331	Agriculture, construction, and mining machinery manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1		D	D	D	D	D	D	D	D

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terms,	and geographical definitions, see note at	end	of table.	For inform	ation on geo	graphic areas	followed by *,	see Append	lix D. For mea	ining of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	III hments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DUBUQUE—Con.												
337	Furniture and related product manufacturing	_	12	1	558	27 082	290	596	9 730	29 072	32 608	61 685	D
3371	Household and institutional furniture and kitchen cabinet	_	9	1	f	D	D	D	D	D	D	D	D
33712	manufacturing  Household and institutional furniture manufacturing		2	1	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	_	11	4	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing	_	5	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
	ЕММЕТ												
31-33	Manufacturing	1	18	7	774	22 046	636	1 173	16 879	97 596	88 517	188 120	7 049
	FAYETTE												
31-33	Manufacturing	-	35	11	1 059	28 028	807	1 576	18 761	111 571	136 612	246 482	2 211
	FLOYD												
31-33	Manufacturing	-	17	8	954	31 649	638	1 469	17 929	74 793	34 520	107 383	23 639
325	Chemical manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
	FRANKLIN												
31-33	Manufacturing	1	21	6	605	20 372	461	896	11 518	44 715	38 124	84 100	D
	GREENE												
31-33	Manufacturing	3	14	4	517	15 975	410	752	10 765	33 182	57 404	91 010	1 305
	HAMILTON												
31-33	Manufacturing	-	30	11	2 968	90 491	2 623	4 928	73 917	155 480	541 541	696 682	4 697
335	Electrical equipment, appliance, and component manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
33522 335224	Major appliance manufacturing, Household laundry	-	2	2	g	D	D	D	D	D	D	D	D
	equipment manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	HANCOCK												
31-33	Manufacturing	_	31	8	1 034	32 958	759	1 529	20 075	82 413	168 793	246 057	3 421
	HARDIN												
31-33	Manufacturing	-	40	14	1 348	32 676	975	1 881	21 214	147 400	300 024	425 590	4 911
311	Food manufacturing	-	4	3	634	10 611	413	814	6 525	78 292	270 804	326 637	2 464
3116	Animal slaughtering and processing	-	2	1	f	D	D	D	D	D	D	D	D
31161 311611	Animal slaughtering and processing	-	2	1	f	D	D	D	D	D	D	D	D
	slaughtering	l –	2	1	l fl	D	D	D	l D	D	ام	D	D

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1011113, 1	and geographical definitions, see note at	enu	or table.							ining of apprevia	and symbo	ois, see introduct	lory text]
			establis	hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	HENRY												
31-33	Manufacturing	-	31	13	2 605	87 533	1 956	3 980	59 186	205 736	302 548	503 913	8 224
333	Machinery manufacturing	-	6	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						_	_	_		_	_	
333414	manufacturing Heating equipment (except warm air furnaces) manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
334	Computer and electronic product			_									Б.
3342	manufacturing  Communications equipment	_	1	1		D	D	D	D	D	D	D	D
	manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33422 334220	Radio and television broadcasting and wireless communications equipment manufacturing Radio and television broadcasting and wireless	-	1	1	f	D	D	D	D	D	D	D	D
	communications equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	HOWARD												
31-33	Manufacturing	-	23	4	1 472	45 143	1 195	2 253	32 321	114 504	90 359	205 120	1 939
336	Transportation equipment manufacturing	-	3	2	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
33621 336214	Motor vehicle body and trailer manufacturing Travel trailer and camper manufacturing	-	2	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	HUMBOLDT												
31-33	Manufacturing	-	26	12	1 067	33 507	725	1 447	19 470	76 126	96 683	172 356	6 350
333	Machinery manufacturing	-	8	6	605	19 173	415	805	10 826	39 760	58 380	97 616	1 738
	IDA												
31-33	Manufacturing	-	11	4	854	29 303	648	1 287	18 179	89 777	94 147	181 078	4 984
	IOWA												
31-33	Manufacturing	_	30	8	4 168	151 160	3 247	6 356	105 237	545 542	479 892	1 024 957	40 803
333	Machinery manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing		1	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
33522 335222	Major appliance manufacturing. Household refrigerator and home freezer	-	1	1	g	D	D	D	D	D	D	D	D
336	manufacturing  Transportation equipment manufacturing	_	1 2	1 2	g f	D D	D D	D D	D D	D D	D D	D D	D D
3363	Motor vehicle parts manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	2	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	2	2	f	D	D	D	D	D	D	D	D
	JACKSON												
31-33	Manufacturing	2	43	17	1 042	31 974	842	1 447	22 383	74 432	90 067	166 144	4 730

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terms,	and geographical definitions, see note at	t end	of table.	For inform	ation on geo	graphic areas	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			A establisl	.ll nments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	JASPER												
31-33	Manufacturing	_	49	13	4 874	230 771	3 395	6 092	120 105	474 860	487 666	959 486	D
335	Electrical equipment, appliance, and component manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
33522 335224	Major appliance manufacturing. Household laundry equipment manufacturing	-	1	1	h h	D D	D D	D D	D D	D D	D D	D D	D D
	JEFFERSON												
31-33	Manufacturing	-	43	13	1 381	47 700	1 097	2 055	33 426	108 398	100 709	207 602	6 649
	JOHNSON												
31-33	Manufacturing	-	75	18	4 605	161 190	3 324	6 122	113 085	3 032 308	1 410 031	4 413 061	74 642
323	Printing and related support activities	-	12	4	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities	-	12	4	f	D	D	D	D	D	D	D	D
32311	Printing	-	12	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing.	-	1	1	f	D	D	D	D	D	D	D	D
32562 325620	Toilet preparation manufacturing Toilet preparation	-	1	1	f	D	D	D	D	D	D	D	D
326	manufacturing  Plastics and rubber products	-	1	1	f	D	D	D	D	D	D	D	D
3261	manufacturing	-	5 5	3	g	D D	D D	D D	D D	D D	D D	D D	D D
32614	Plastics product manufacturing Polystyrene foam product	_	5	3	g	Б		Ь	D	D		D	Ь
326140	mánúfacturing Polystyrene foam product manufacturing	-	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
334	Computer and electronic product manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control					_	_	_	_	_	_	_	
334511	instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical	_	2	1	f	D	D	D	D	D	D	D	D
	system and instrument manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	16	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing	-	4	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
339994	Broom, brush, and mop manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	JONES												
31-33	Manufacturing	-	29	6	635	21 755	478	948	14 859	77 878	77 522	153 260	2 843
	коѕѕитн												
31-33	Manufacturing	1	24	9	1 005	34 873	827	1 653	24 713	93 951	87 477	182 945	6 056

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terms, a	and geographical definitions, see note at	t end			ation on geog	graphic areas	followed by *,	see Append	IX D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	ll hments <sup>2</sup>	All emp	oloyees	Pro	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	LEE												
31-33	Manufacturing	-	66	31	i	D	D	D	D	D	D	D	D
311	Food manufacturing	-	5	4	1 070	52 599	727	1 538	31 393	171 221	186 638	360 757	D
3112	Grain and oilseed milling	-	3	3	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing			3		D	D	D	D	D	D	D	D
311221	Wet corn milling	_	3	3	f	D	D D	Ď D	D	D	D D	D	D
326	Plastics and rubber products manufacturing		5	4	1 127	37 176	928	1 930	27 779	93 210	64 472	159 302	D
3262	Rubber product manufacturing		3	3	g g	37 170 D	920 D	D D	27 779 D	93 210 D	D D	139 302 D	D
32629	Other rubber product				9	5			5		ا	5	5
326291	manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
320231	manufacturing for mechanical use	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	3	2	f	D	D	D	D	D	D	D	D
33151 331513	Ferrous metal foundries Steel foundries (except	-	2	2	f	D	D	D	D	D	D	D	D
001010	investment)	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	20	8	f	D	D	D	D	D	D	D	D
	LINN												
31-33	Manufacturing	-	234	88	18 044	909 701	8 480	16 909	368 023	2 938 626	2 250 784	5 521 626	179 402
311	Food manufacturing	-	21	14	h	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	-	7	7	g	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing	_	5	5	f	D	D	D	D	D	D	D	D
311221 31123	Wet corn milling Breakfast cereal	-	5 3	3	f	D	D	D	D	D	D	D	33 989
311230	manufacturing Breakfast cereal	-	2	2	g	D	D	D	D	D	D	D	D
0.1200	manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning,			_		_		_	_				
311423	pickling, and drying Dried and dehydrated food manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
323	Printing and related support activities	_	34	11	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities	_	34	11	g	D	D	D	D	D	D	D	D
32311	Printing	_	32	10	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products												
	manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	47 32	17 15	1 009	37 448 D	711 D	1 443 D	21 824 D	67 602 D	56 836 D	124 746 D	D D
334	Machinery manufacturing  Computer and electronic product	'	32	13	g	D			D	D		Ь	D
	manufacturing	-	9	4	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	5	3	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring,												
334511	electromedical, and control instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical	-	5	3	i	D	D	D	D	D	D	D	D
	system and instrument manufacturing	-	2	2	i	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing	_	1	1	f	D	D	D	D	D	D	D	D

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terms,	and geographical definitions, see note at	t end	of table.	For inform	ation on geog	graphic areas	followed by *,	see Append	lix D. For mea	ning of abbrevia	itions and symbo	ols, see introduc	tory text]
			establis	ll hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	LOUISA												
31-33	Manufacturing	_	11	5	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	_	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and				9								D
311611	processing	-	2 2	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
	LYON		-	· ·	9	5				5		J	J
31-33	Manufacturing	4	22	6	516	17 364	342	666	10 752	37 511	35 735	71 710	3 143
	MAHASKA							-			55 155		
31-33	Manufacturing	1	28	8	822	29 383	668	1 404	21 687	100 621	123 103	225 193	6 075
332	Fabricated metal product		20		022	20 000	000	1 404	21 007	100 021	120 100	220 100	0 0/0
	manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
	MARION												
31-33	Manufacturing	-	47	17	7 515	314 513	4 922	9 982	164 325	876 110	531 868	1 401 167	40 956
321	Wood product manufacturing	-	4	2	h	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	_	4	2	h	D	D	D	D	D	D	D	D
32191	Millwork	_	1	1	h	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
322	Paper manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and									0	5		
322222	treated paper manufacturing Coated and laminated paper manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
333	Machinery manufacturing	_	10	6	2 220	72 681	1 395	2 204	35 250	161 130	202 133	362 943	D
3331	Agriculture, construction, and mining machinery manufacturing	_	2	1	g	D	D	D	D	D	D	D	D
33312	Construction machinery		_		9	5		5		5		5	J
333120	manufacturing Construction machinery manufacturing	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
	MARSHALL												
31-33	Manufacturing	_	47	15	5 398	193 555	3 938	7 873	111 735	1 058 620	794 714	1 860 197	17 315
311	Food manufacturing	_	3	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					_	_	_	_	_	_	_	_
311611	processing	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	1	9	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	_	2	1	g	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing	_	1	1	g	D	D	D	_ D	D	D	D	D
332911	Industrial valve manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	8	4	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air- conditioning, and commercial refrigeration equipment												
33341	Ventilation, heating, air-	-	2	2	g	D	D	D	D	D	D	D	D
	conditioning, and commercial refrigeration equipment		2	2		D	D	D	D	D	D	D	D
333415	manufacturing	_		2	g	D		D				U	U
	refrigeration equipment manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	MITCHELL												
31-33	Manufacturing	I –	20	7	889	28 800	704	1 363	18 931	109 853	89 752	201 279	4 016

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terris,	and geographical definitions, see note at	ena	Α .	JI						ining of abbrevia	mons and symbo	ois, see introduct	ory text]
			establis	hments <sup>2</sup>	All em	oloyees	PIC	duction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	MONTGOMERY												
31-33	Manufacturing	-	12	6	831	25 025	644	1 083	16 875	64 180	75 456	141 179	6 167
332	Fabricated metal product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
	MUSCATINE												
31-33	Manufacturing	-	73	37	i	D	D	D	D	D	D	D	D
311	Food manufacturing	2	8	5	h	D	D	D	D	D	D	D	D
3112 31122	Grain and oilseed milling  Starch and vegetable fats and	_	1	1	f	D	D	D	D	D	D	D	D
311221	oils manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning.												
311421	pickling, and drying Fruit and vegetable canning.	_	1 1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and processing	9	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	9	,	1		D	D	D	D	D	D	D	D
311615	Poultry processing	9	2 1	i	g g	Ď	Ď	Б	D D	Ď	Б	Ď	Ď
325	Chemical manufacturing	-	4	1	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
32532	Pesticide and other agricultural		1	1	f	D	D	D	D	D	D	D	D
325320	chemical manufacturing Pesticide and other agricultural chemical manufacturing	_	1	1	<u> </u>	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	_	4	2	, ,	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
33111 331111	Iron and steel mills and ferroalloy manufacturing Iron and steel mills	_	2 2	2 2	f	D D	D D	D D	D D	D D	D D	D D	D D
337	Furniture and related product manufacturing	_	7	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	_	5	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	_	5	5	g	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
	O'BRIEN		_	_	9	_	_	_	_	_	-	-	
31-33	Manufacturing	4	28	8	1 071	28 996	857	1 744	21 608	66 736	328 707	394 309	12 584
	OSCEOLA												
31-33	Manufacturing	_	14	5	535	14 061	445	823	10 590	54 210	73 082	125 127	2 107
	PAGE												
31-33	Manufacturing	_	25	9	2 015	76 429	1 762	3 076	62 114	275 987	224 649	503 071	9 679
321	Wood product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
32191 321911	Millwork Wood window and door manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	_	5	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	PALO ALTO												
31-33	Manufacturing	l –	21	7	544	18 070	359	502	9 767	51 556	157 437	210 272	2 075

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terms, a	and geographical definitions, see note at	end	of table. I	For inform	ation on geo	graphic areas	followed by *,	see Append	dix D. For mea	ning of abbrevia	itions and symbo	ols, see introduc	tory text]
			establisl	.ll nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	PLYMOUTH												
31-33	Manufacturing	_	30	10	g	D	D	D	D	D	D	D	D
311	Food manufacturing	_	10	5	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
	POCAHONTAS												
31-33	Manufacturing	1	18	7	549	19 169	357	754	10 907	38 806	42 496	81 501	677
	POLK												
31-33	Manufacturing	-	399	120	17 294	655 518	11 790	22 198	385 425	2 286 551	2 510 570	4 794 605	111 405
311	Food manufacturing	-	52	21	h	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	-	3 2	3	f	D D	D	D D	D D	D D	D D	D D	D D
311511 3116	Fluid milk manufacturing  Animal slaughtering and processing	2	9	4	f	D	D D	D	D	D	D	D	D
31161	Animal slaughtering and												
311611	processing Animal (except poultry)	2	9	4	f	D D	D D	D D	D D	D D	D D	D D	D D
3119	slaughtering Other food manufacturing	_	5	3	, ,	D	D	D	D	D	D	D	D
31194	Seasoning and dressing				·								
311942	manufacturing Spice and extract manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
323	Printing and related support activities	3	85	21	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities	3	85	21	g	D	D	D	D	D	D	D	D
32311 323110	Printing	2	74	18	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	1	34	10	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	20	7	678	35 165	367	768	13 846	180 624	215 518	393 837	D
326	Plastics and rubber products manufacturing	_	15	11	2 884	124 577	2 357	4 473	96 253	259 042	296 255	561 078	D
3261	Plastics product manufacturing	-	11	8	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing	_	4	3	g	D	D	D	D	D	D	D	D
32621 326211	Tire manufacturing Tire manufacturing (except	-	3	3	g	D	D	D	D	D	D	D	D
	retreading)	-	2	2	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	2	29	11	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	18	10	f	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing	2	8	6	f	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing	2	8	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	46	6	1 283	44 784	879	1 667	24 630	216 514	106 272	319 050	5 769
3323	Architectural and structural metals manufacturing	_	11	2	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products												
332321	manufacturing  Metal window and door manufacturing	_	9	2	f f	D D	D D	D D	D D	D D	D D	D D	D D

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			establisl	II nments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	POLK-Con.												
333	Machinery manufacturing	-	27	11	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	5	4	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing	_	4	3	f	D	D	D	D	D	D	D	D
333111	Farm machinery and equipment manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery												
333319	manufacturing Other commercial and service industry machinery manufacturing	_	6	3	f f	D D	D D	D D	D D	D D	D D	D D	D D
334	Computer and electronic product manufacturing	_	12	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment												
3363	manufacturing	-	15	3	g	D	D	D	D	D	D	D	D
3303	manufacturing	-	7	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	36	8	713	18 649	537	1 043	10 914	37 934	29 039	68 110	D
	POTTAWATTAMIE												
31-33	Manufacturing	-	65	22	4 717	140 217	3 972	8 549	108 622	498 198	1 237 495	1 734 273	D
311 3114	Food manufacturing	_	9	6	h h	D	D	D	D	D	D	D	48 867
3114	Fruit and vegetable preserving and specialty food manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	_	2	1	f	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
311612	Meat processed from carcasses	_	4	3	g	D	D	D	D	D	D	D	D
	POWESHIEK												
31-33	Manufacturing	-	32	15	1 443	45 856	1 114	2 156	30 901	142 152	122 269	264 732	4 652
336	Transportation equipment manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
	00077												
31-33	SCOTT  Manufacturing		201	76	12 169	502 167	8 358	16 973	315 040	2 086 645	1 706 110	3 700 019	137 498
311	Food manufacturing	_	12	3	2 892	106 300	1 959	3 916	68 526	634 575	407 954	1 023 391	30 678
3116	Animal slaughtering and processing	_	2	1	g .	D	D	D	D 02.0	D	D	D	D
31161	Animal slaughtering and												
311612	processing	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
3118	Bakeries and tortilla manufacturing	_	4	1	f	D	D	D	D	D	D	D	D
31181 311812	Bread and bakery product manufacturing Commercial bakeries	_	4	1	f	D D	D D	D D	D D	D D	D D	D D	D D
323	Printing and related support activities	_	25	4	753	25 126	503	1 006	16 217	61 548	34 571	96 251	1 480
3231	Printing and related support activities	_	25	4	753	25 126	503	1 006	16 217	61 548	34 571	96 251	1 480
32311	Printing	_	23	4	f	D .20		D	D	D	D	D	D

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terms,	and geographical definitions, see note at	t end	of table.	For inform	ation on geog	graphic areas t	followed by *,	see Append	lix D. For mea	ning of abbrevia	itions and symbo	ols, see introduc	tory text]
			establis	.ll nments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	SCOTT—Con.												
331	Primary metal manufacturing	_	11	7	h	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	_	3	3	h	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing	_	3	3	h	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing		3	3	h	D	D	D	D	D	D	D	D
3315	Foundries	_	7	3	f f	D	D	D	D	D	D	D	D
33151 331511	Ferrous metal foundries	-	2 2	2 2	f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product										-		
333	manufacturing	1 _	42 27	18 14	1 218 2 377	46 059 106 117	870 1 428	1 789 2 629	27 661 56 859	92 345 518 688	45 971 273 225	138 763 796 594	D 9 234
3331	Agriculture, construction, and			14	2 377	100 117	1 420	2 023	30 033	310 000	270 223	750 554	3 204
	mining machinery manufacturing	-	4	3	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	3	2	g	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	3	2	g	D	D	D	D	D	D	D	D
	SIOUX												
31-33	Manufacturing	r3	86	29	4 138	110 980	3 427	6 062	78 325	<sup>r</sup> 254 410	376 412	r630 345	20 792
311 3116	Food manufacturing  Animal slaughtering and	4	19	6	865	24 693	762	1 610	19 086	72 661	187 322	258 171	4 319
	processing	3	12	5	738	21 528	647	1 349	16 207	60 134	156 844	215 193	3 416
31161	Animal slaughtering and processing	3	12	5	738	21 528	647	1 349	16 207	60 134	156 844	215 193	3 416
321 3219	Wood product manufacturing  Other wood product	-	4	1	g	D	D	D	D	D	D	D	D
	manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
32191 321911	Millwork Wood window and door manufacturing	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	3	16	5	656	21 026	510	994	14 368	51 692	23 868	75 429	2 232
333	Machinery manufacturing	1	11	6	623	16 941	481	1 014	10 164	41 702	34 937	76 833	2 415
	STORY												
31-33	Manufacturing	-	69	30	3 753	148 524	2 468	4 779	77 611	590 384	424 777	1 023 889	39 508
327	Nonmetallic mineral product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	6	4	789	38 858	372	621	12 770	102 378	87 895	194 383	3 418
3339	Other general purpose machinery manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
333996	Fluid power pump and motor manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	UNION												
31-33 333	Manufacturing	-	15	9	1 282 627	38 528 17 006	891 385	1 523 530	22 857 7 651	85 702 45 095	75 426 33 648	154 446 73 727	4 155 D
333	WAPELLO		3	3	027	17 000	363	330	7 031	45 095	33 040	13 121	D
31-33	Manufacturing	_	32	12	4 112	155 225	3 241	7 093	106 333	710 036	1 028 304	1 722 851	51 712
311	Food manufacturing	-	8	5	h	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
311611	Animal (except poultry) slaughtering	_	2	2	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	4	2	f f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement												
333111	manufacturing Farm machinery and equipment manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	WASHINGTON												
31-33	Manufacturing	1	40	14	1 311	39 894	999	2 036	27 154	111 584	91 688	206 710	4 137

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NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	WEBSTER												
31-33	Manufacturing	_	52	14	2 154	79 941	1 375	3 086	48 264	613 126	436 587	1 034 648	40 811
325	Chemical manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	_	8	4	f	D	D	D	D	D	D	D	D
	WINNEBAGO												
31-33	Manufacturing	_	18	6	4 696	154 864	3 870	7 087	96 488	415 690	622 125	1 020 598	12 824
336	Transportation equipment manufacturing	_	2	2	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	-	1 1	1	þ	D D	D D	D D	D	D D	D D	D D	D D
336213 3363	Motor home manufacturing  Motor vehicle parts manufacturing	_	' '	1	h f	D	D	D	D D	D	D	D	D
33639	Other motor vehicle parts			· ·	·					5			5
336399	manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	WINNESHIEK												
31-33	Manufacturing	_	28	8	1 693	51 004	1 460	2 744	39 169	111 894	123 848	237 461	5 392
332	Fabricated metal product manufacturing	_	4	1	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut,			· ·	·								5
332722	and bolt manufacturing Bolt, nut, screw, rivet, and	-	1	1	f	D D	D D	D D	D D	D D	D D	D D	D D
	washer manufacturing	_	'	1	'	U		U	J	D	U	U	U
31-33	WOODBURY  Manufacturing	2	108	51	,	D	D	D	D	D	D	D	38 566
311	Food manufacturing	3	26	19	3 091	89 510	2 574	5 027	64 891	378 637	1 133 384	1 486 909	D
3116	Animal slaughtering and processing	6	10	8	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and			_		_	_	_	_	_	_	_	
311611	processing Animal (except poultry) slaughtering	6 7	10	8	g g	D D	D D	D D	D D	D D	D D	D D	D D
3119	Other food manufacturing	3	5	4	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing	3	5	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
	WRIGHT												
31-33	Manufacturing	1	30	11	1 161	38 842	897	1 797	25 961	205 079	315 788	511 548	6 245
336	Transportation equipment manufacturing	_	2	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
336311	Carburetor, piston, piston ring, and valve manufacturing	_	1	1	f	D	D	D	D	D	D	D	D

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

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

³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: f–500 to 99,999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 99,999 employees; m–100,000 employees or more.

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

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

# Table 4. Industry Statistics for Places: 2002

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

terms,	and geographical definitions, see note at	end	1		ation on geog	graphic areas	followed by *,	see Append	lix D. For mea	ining of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	III hments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	ALGONA												
31-33	Manufacturing	-	17	6	820	29 626	670	1 337	20 954	81 425	70 319	153 131	5 383
	AMES												
31-33	Manufacturing	-	41	17	2 389	103 940	1 420	2 791	47 145	452 918	306 290	770 746	31 561
327	Nonmetallic mineral product manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
333996	Fluid power pump and motor manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	ANKENY												
31-33	Manufacturing	_	22	8	1 834	100 734	1 206	2 165	57 455	475 717	377 395	854 685	17 616
311	Food manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
311942	Spice and extract manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement												
333111	manufacturing Farm machinery and	_	1	1	f	D	D	D	D	D	D	D	D
	equipment manufacturing	_	1	1	†	D	D	D	D	D	D	D	D
	ATLANTIC			_		_	_	_	_	_	_	_	
31-33	Manufacturing  BELMOND	4	13	5	Ť	D	D	D	D	D	D	D	2 296
31-33	Manufacturing	_	10	4	711	23 204	600	1 246	18 243	69 040	32 995	102 083	3 453
336	Transportation equipment			,	, , ,	20 204	000	1 240	10 240	00 040	02 000	102 000	0 400
3363	manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
	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
336311	Carburetor, piston, piston ring, and valve manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	BETTENDORF												
31-33	Manufacturing	2	35	15	1 002	34 950	733	1 523	21 777	81 435	47 962	130 438	D
	BOONE												
31-33	Manufacturing	_	20	10	f	D	D	D	D	D	D	D	8 212
	BURLINGTON					_	_	_	_	_	_	_	
31-33	Manufacturing	_	35	15	2 999	104 006	2 231	4 690	72 967	310 500	402 189	735 557	D
311	Food manufacturing	_	4	3	2 333 f	D	2 251 D	4 030 D	72 307 D	D 010 300	402 103 D	703 337 D	D
3118	Bakeries and tortilla manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta												
311821	manufacturing Cookie and cracker	-	1	1	f	D	D	D	D	D	D	D	D
000	manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	2	2		D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1	f.	D	D	D	D	D	D	D	D

# 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]

	and geographical definitions, see note at	l	A							aning or abbrevio	ations and symbol	510, 000 marodao	tory toxt]
			establis	nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	BURLINGTON—Con.												
334	Computer and electronic product				_	_	_	_	_	_	_	_	_
3342	manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment												
334220	manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
	communications equipment manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	_	3	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment												
336322	manufacturing Other motor vehicle electrical and electronic equipment	-	2	1	f	D	D	D	D	D	D	D	D
	manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
04.00	CAMANCHE												
31-33	Manufacturing	8	6	3	T	D	D	D	D	D	D	D	D
31-33	CARROLL		19	6	1 130	30 731	967	1 754	23 563	106 742	113 501	216 041	D
321	Manufacturing  Wood product manufacturing		2	1	1 130 f	30 731 D	967 D	1 754 D	23 563 D	106 742 D	D 113 501	216 041 D	D
3219	Other wood product												
32191	manufacturing	-	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
321911	Wood window and door manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	CEDAR FALLS												
31-33	Manufacturing	-	43	16	g	D	D	D	D	D	D	D	D
	CEDAR RAPIDS												
31-33	Manufacturing	-	141	68	15 778	798 726	6 851	13 401	294 106	2 041 342	1 977 875	4 352 257	105 419
311 3112	Food manufacturing  Grain and oilseed milling	_	15 7	13 7	2 757	147 170 D	2 109 D	4 765 D	104 687 D	1 059 980 D	1 157 281 D	2 220 692 D	D D
31122	Starch and vegetable fats and	_	,	,	g	D		D					D
311221	oils manufacturing Wet corn milling	_	5 3	5 3	f f	D D	D D	D D	D D	D D	D D	D D	D 33 989
31123	Breakfast cereal manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
323	Printing and related support activities	_	21	6	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities	_	21	6	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	_	5	3	532	23 245	431	849	17 830	64 761	71 328	136 154	D
3261	Plastics product manufacturing	-	5	3	532	23 245	431	849	17 830	64 761	71 328	136 154	D
332	Fabricated metal product manufacturing	1	28	14	828	31 018	578	1 179	17 795	52 501	47 454	100 321	D
333	Machinery manufacturing	-	17	11	1 252	60 620	693	1 422	26 572	125 726	111 199	243 281	7 017
334	Computer and electronic product manufacturing	_	7	3	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	5	3	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control												
334511	instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	_	5	3	i	D	D	D	D	D	D	D	D
	manufacturing	I –	1 2	2	l i	D	l D	D	l D	D	l D	D	D

### 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]

terms,	and geographical definitions, see note a	t end			ation on geo	graphic areas	followed by *,	see Append	lix D. For mea	ining of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	III hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	CEDAR RAPIDS—Con.												
335	Electrical equipment, appliance, and component manufacturing	_	2	1	,	D	D	D	D	D	D	D	D
3353	Electrical equipment		-	'									D
00504	manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	CENTERVILLE												
31-33	Manufacturing	1	12	5	1 125	33 592	980	2 009	27 144	95 639	80 393	176 926	D
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
	CHARLES CITY												
31-33	Manufacturing	_	12	8	927	30 781	618	1 436	17 318	73 102	33 493	104 677	D
325	Chemical manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine					D	D	D	D	D	D	D	D
32541	manufacturing  Pharmaceutical and medicine	_	2	2	T I	D	الما	D	J D	U	U	ט	D
	manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
	CHEROKEE												
31-33	Manufacturing	-	5	1	f	D	D	D	D	D	D	D	D
311 3116	Food manufacturing  Animal slaughtering and	-	2	1	T I	D	D	D	D	D	D	D	D
3110	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
311612	Meat processed from carcasses	_	1	1	f	D	D	D	D	D	D	D	D
	CLARINDA												
31-33	Manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
	CLEAR LAKE												
31-33	Manufacturing	-	12	3	f	D	D	D	D	D	D	D	D
	CLINTON												
31-33	Manufacturing	_	27	12	2 843	114 659	2 281	4 967	83 100	1 129 805	1 005 018	2 118 783	28 657
311	Food manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	-	1	1	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
311221	Wet corn milling	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	6	3	1	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing	6	3	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product			_							6		6
326199	manufacturing	6		1	Ī	D D	D D	D D	D D	D D	D D	D D	D D
	manufacturing	6	3	1		U		D	0	U	U	U	U
04.00	CLIVE		10		007	00.100	646	1 177	14 000	150 100	00 507	000 005	0.700
31-33	Manufacturing	2	19	8	907	23 160	646	1 177	14 803	153 188	90 527	238 905	8 763
	CORALVILLE		_	_		_	_	_	_	_	_	_	_
31-33 334	Manufacturing  Computer and electronic product	_	9	2	f	D	D	D	D	D	D	D	D
304	manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control												
334511	electromedical, and control instruments manufacturing Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	_	1	1	f	D	D	D	D	D	D	D	D
	manufacturing	-	1	1	l f	D	D	D	D	D	D	D	D

[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]

1011110,	and geographical definitions, see note at	l								aming of approvid	ations and symbol	510, 000 IIII 0000	tory toxtj
			establisi	hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	COUNCIL BLUFFS												
31-33	Manufacturing	-	46	19	h	D	D	D	D	D	D	D	48 355
311	Food manufacturing	-	5	4	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	-	2	1	f	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
311612	Meat processed from carcasses	-	2	2	g	D	D	D	D	D	D	D	D
	CRESCO												
31-33	Manufacturing	-	15	4	1 433	43 979	1 163	2 183	31 439	110 771	84 976	196 003	1 599
336	Transportation equipment manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer	_	1	1	f	D	D	D	D	D	D	D	D
336214	manufacturing Travel trailer and camper manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	CRESTON												
31-33	Manufacturing	_	13	8	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	3	3	627	17 006	385	530	7 651	45 095	33 648	73 727	D
	DAVENPORT												
31-33	Manufacturing	-	114	45	7 619	302 058	5 005	9 971	177 011	1 398 455	1 117 025	2 497 340	53 504
311	Food manufacturing	-	7	3	2 855	105 446	1 927	3 872	67 853	632 779	406 365	1 020 007	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
311612	Meat processed from carcasses	-	1	1	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing	-	3	1	f	D	₽	D	D	D	₽	D	D
311812 331	Commercial bakeries  Primary metal manufacturing	_	1 8	1 4	f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product												
333	manufacturing	1 -	19 15	9	673 2 139	27 279 96 432	433 1 245	947 2 247	14 073 50 200	55 920 506 355	22 778 259 974	79 489 769 994	D D
3331	Agriculture, construction, and				2 .00	00 .02	. 2.0		00 200	000 000	200 07 1	700 00 1	
	mining machinery manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
	DECORAH												
31-33	Manufacturing	-	12	5	1 117	32 602	961	1 937	24 857	82 161	101 606	185 310	3 301
332	Fabricated metal product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut,		'		'								
332722	and bolt manufacturing Bolt, nut, screw, rivet, and washer manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	washer manufacturing	. –			. ''		יט י	U	, Б	, D		, D	

[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]

terms,	and geographical definitions, see note at	end	I		ation on geog	graphic areas	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	ll hments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DENISON												
31-33	Manufacturing	-	13	6	g	D	D	D	D	D	D	D	5 487
311	Food manufacturing	-	2	2	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
311611	Animal (except poultry) slaughtering	-	2	2	g	D	D	D	D	D	D	D	D
	DES MOINES												
31-33	Manufacturing	-	212	64	7 350	257 990	4 976	9 841	143 990	912 844	1 174 236	2 081 242	32 291
311	Food manufacturing	-	29	10	1 683	55 364	1 016	2 325	30 111	269 993	672 122	937 861	10 150
3115	Dairy product manufacturing	_	4	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	-	7	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and		_					D	D	0	D	D.	D
311611	processing	_	7 6	3 2	f f	D D	D D	D	D	D D	D	D D	D
323	Printing and related support activities	3	52	15	1 224	39 945	919	1 514	24 382	70 659	52 234	124 711	5 796
3231	Printing and related support activities	3	52	15	1 224	39 945	919	1 514	24 382	70 659	52 234	124 711	5 796
32311	Printing	2	43	12	g	D	D	D	D	D	D	D	D
325 326	Chemical manufacturing	_	15	6	T T	D	D	D	D	D	D	D	D
320	Plastics and rubber products manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing	-	2	1	f	D	D	D	D	D	D	D	D
32621 326211	Tire manufacturing Tire manufacturing (except	-	1	1	f	D	D	D	D	D	D	D	D
	retreading)	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	_	24	3	793	27 651	480	893	11 981	95 062	68 518	160 008	4 305
3323	Architectural and structural metals manufacturing	_	6	2	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products												
332321	manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
302021	manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	26	7	595	14 964	450	869	9 021	29 649	26 909	57 602	1 162
	DE WITT												
31-33	Manufacturing	1	16	10	927	29 998	739	1 509	21 744	124 187	74 080	198 918	3 693
	DUBUQUE												
31-33	Manufacturing	-	91	39	4 932	169 984	3 318	6 369	104 218	398 435	474 685	866 089	35 381
311	Food manufacturing	-	10	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	18	5	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities	1	18	5	f	D	D	D	D	D	D	D	D
32311	Printing	-	15	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	_	19	10	1 027	35 329	739	1 351	24 053	82 704	82 584	166 331	2 089
3329	Other fabricated metal product manufacturing	_	5	4	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	_	5	1	f	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	4	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional												
337121	furniture manufacturing Upholstered household furniture manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D

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terms,	and geographical definitions, see note at	ena		di di						ning of apprevia	and symbo	ois, see introduc	lory text]
			establis	hments <sup>2</sup>	All em	ployees	Pro	duction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	DUBUQUE—Con.												
339	Miscellaneous manufacturing	-	10	4	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing	_	5	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	_	5	3	f	D	D	D	D	D	D	D	D
	DYERSVILLE												
31-33	Manufacturing	-	18	6	856	24 086	680	1 228	15 642	50 393	51 469	101 661	8 115
	ELDRIDGE												
31-33	Manufacturing	_	16	7	f	D	D	D	D	D	D	D	D
	FAIRFIELD												
31-33	Manufacturing	_	34	13	1 355	46 989	1 077	2 016	32 970	107 067	97 534	203 096	6 540
	FOREST CITY												
31-33	Manufacturing	_	5	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment	_	1	1	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer	_	1	1	h	D	D	D	D	D	D	D	D
33621	manufacturing	_											
336213	manufacturing	_	1	1	h h	D D	D D	D D	D D	D D	D D	D D	D D
	FORT DODGE												
31-33	Manufacturing	-	35	10	1 039	39 257	800	1 766	28 880	311 695	262 522	570 038	D
	FORT MADISON												
31-33	Manufacturing	-	19	13	1 863	75 156	1 471	2 827	51 738	376 770	169 585	547 634	14 754
	GRIMES												
31-33	Manufacturing	_	6	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery					9				6			5
333319	manufacturing Other commercial and service industry machinery	_	1	1	f f	D	D	D	D	D	D	D	D
	manufacturing	_	1	1	f f	D	D	D	D	D	D	D	D
	GRINNELL												
31-33	Manufacturing	_	21	10	922	28 389	745	1 468	21 026	84 893	63 676	148 081	1 918
	HIAWATHA												
31-33	Manufacturing	1	17	7	616	25 337	428	933	13 347	53 391	36 507	89 509	D
	HUMBOLDT												
31-33	Manufacturing		23	11	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	8	6	605	19 173	415	805	10 826	39 760	58 380	97 616	1 738
	INDEPENDENCE												
31-33	Manufacturing	I –	13	5	684	21 861	572	1 221	15 021	43 476	142 431	186 417	D

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terms,	and geographical definitions, see note at	end	of table.	For inform	ation on geog	graphic areas t	followed by *,	see Append	dix D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			establis	.ll nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	IOWA CITY												
31-33	Manufacturing	-	44	13	3 190	115 827	2 203	4 343	81 419	2 713 976	1 281 992	3 967 398	68 198
323	Printing and related support activities	_	11	4	f	D	D	D	D	D	D	D	D
3231	Printing and related support												
32311	activities Printing	_	11 11	4	f f	D D	D D	D D	D D	D D	D D	D D	D D
325	Chemical manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing.	_	1	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	, i	D	D	D	D	D	D	D	D
326	Plastics and rubber products												
3261	manufacturing	_	3	1	f	D D	D D	D D	D D	D D	D D	D D	D D
32614	Polystyrene foam product	_	3	'	· '		D			U			D
326140	mánufacturing Polystyrene foam product	-	1	1	f	D	D	D	D	D	D	D	D
	manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
339 3399	Miscellaneous manufacturing  Other miscellaneous	_	11	1	T f	D D	D D	D D	D D	D D	D D	D D	D D
33999	manufacturing	_		'	· '		D			U			D
339994	manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	KEOKUK												
31-33	Manufacturing	_	30	12	2 771	102 806	2 115	4 317	70 918	322 052	314 160	638 355	D
311	Food manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	-	3	3	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing	_	3	3	f	D D	D D	D D	D	D D	D D	D D	D D
311221 326	Wet corn milling Plastics and rubber products	_	3	3	<u>'</u>			D	D				
3262	manufacturing  Rubber product manufacturing	_	2 2	2	T f	D D	D D	D	D D	D D	D D	D D	D D
32629	Other rubber product												_
326291	manufacturing Rubber product manufacturing for	_	2	2	f	D	D	D	D	D	D	D	D
331	mechanical use  Primary metal manufacturing	_	3	2	i i	D D	D D	D D	D D	D D	D D	D D	D D
3315	Foundries	_	3	2	f	D	D	D	D	D	D	D	D
33151 331513	Ferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331313	Steel foundries (except investment)	-	2	2	f	D	D	D	D	D	D	D	D
	KNOXVILLE												
31-33	Manufacturing	-	7	3	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	LE MARS												
31-33	Manufacturing	_	14	6	g	D	D	D	D	D	D	D	D
311	Food manufacturing	_	7	5	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	-	3	3	g	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
	MANCHESTER												
31-33	Manufacturing	-	15	5	864	30 051	720	1 305	22 571	30 743	74 651	105 559	2 076
	MAQUOKETA												
31-33	Manufacturing	2	23	12	629	20 430	504	947	14 590	53 455	71 373	126 284	3 515

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	and geographical definitions, see note at		А	JI						g		,	,
			establis	nments <sup>2</sup>	All em	ployees	Pro	duction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	MARION												
31-33	Manufacturing	3	41	9	f	D	D	D	D	D	D	D	D
	MARSHALLTOWN												
31-33	Manufacturing	_	40	14	i	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		1	1		D	D	D	D	D	D	D	D
311611	processingAnimal (except poultry) slaughtering	_	1	1	g g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	8	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	_	2	1		D	D	D	D	D	D	D	D
33291	Metal valve manufacturing	_	1	1	g g	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	5	3	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-												
333415	conditioning, and commercial refrigeration equipment manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	commercial and industrial refrigeration equipment manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	MASON CITY												
31-33	Manufacturing	-	36	20	3 212	102 262	2 435	4 373	70 169	343 875	425 567	764 678	23 350
321	Wood product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
32191 321911	Millwork  Wood window and door  manufacturing	-	2	2	f f	D D	D D	D D	D D	D D	D D	D D	D D
332	Fabricated metal product manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products												
332321	manufacturing Metal window and door manufacturing	-	1	1 1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	MONTICELLO												
31-33	Manufacturing	_	13	5	534	18 462	413	824	13 068	65 204	60 632	125 444	D
	MOUNT PLEASANT												
31-33	Manufacturing	_	17	10	2 461	82 986	1 840	3 750	56 100	193 663	283 263	472 558	7 721
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	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air- conditioning, and commercial refrigeration equipment					-		_	_		_ ا	-	
333414	manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D	D D	D D

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terms,	and geographical definitions, see note at	end	of table. F	For inform	ation on geog	graphic areas t	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ls, see introducto	ory text]
			A establish	II nments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	MOUNT PLEASANT—Con.												
334	Computer and electronic product manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing		1	1	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	MUSCATINE												
31-33	Manufacturing	_	41	23	5 710	231 469	4 224	8 012	154 881	1 792 809	1 250 102	3 049 608	57 100
311	Food manufacturing	_	3	3	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	-	1	1	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and	_	1	1	f	D	D	D	D	D	D	D	D
311221	oils manufacturing Wet corn milling	-	i	i	f	Ď	Ď	Ď	Ď	Ď	Ď	Ď	Ď
3114	Fruit and vegetable preserving and specialty food manufacturing	_	1	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
311421	Fruit and vegetable canning .	-	1	1	j j	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
32532	Pesticide and other agricultural chemical manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
325320	Pesticide and other agricultural chemical manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	-	6	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	-	5	5	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	_	5	5	g	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing	_	3	3	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
	NEVADA												
31-33	Manufacturing	-	8	6	620	20 235	457	865	12 874	54 567	51 969	106 195	4 702
	NEW HAMPTON												
31-33	Manufacturing	-	13	6	636	20 274	451	944	11 333	43 186	60 328	103 284	5 082
	NEWTON												
31-33	Manufacturing	-	22	7	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	_	1	1	h	D	D	D	D	D	D	D	D
33522 335224	Major appliance manufacturing. Household laundry equipment manufacturing	-	1	1	h h	D D	D D	D D	D D	D D	D D	D D	D D
	NORTH LIBERTY		'	·	"	D		5			٦		5
31-33	Manufacturing	_	5	2	f	D	D	D	D	D	D	D	D
	ORANGE CITY												
31-33	Manufacturing	r8	10	7	663	20 421	523	1 027	14 101	r43 290	118 066	r151 407	2 274
	OSAGE												
31-33	Manufacturing	_	8	5	646	21 724	473	899	12 816	90 098	61 030	152 702	D

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and goograpmour dominions, see note at	Cita	A	JI						aming of abbrevia	ations and symbol	510, 000 1111 0000	lory toxtj
		establis	nments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
Geographic area and industry	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
OSCEOLA												
Manufacturing	8	12	7	g	D	D	D	D	D	D	D	D
Food manufacturing	9	1	1	f	D	D	D	D	D	D	D	D
Animal slaughtering and processing	9	1	1	f	D	D	D	D	D	D	D	D
Animal slaughtering and processing	9	1	1	f	D	D	D	D	D	D	D	D
Animal (except poultry) slaughtering	9	1	1	f	D	D	D	D	D	D	D	D
OSKALOOSA												
Manufacturing	2	17	5	f	D	D	D	D	D	D	D	2 703
OTTUMWA												
Manufacturing	-	19	6	h	D	D	D	D	D	D	D	D
Food manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
Animal slaughtering and processing	_	1	1	g	D	D	D	D	D	D	D	D
Animal slaughtering and processing	_	1	1	a	D	D	D	D	D	D	D	D
Animal (except poultry)	_	1	1		D	D	D	D	D	D	D	D
Machinery manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
Agriculture, construction, and mining machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
Agricultural implement												
manufacturing Farm machinery and equipment manufacturing	_	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
PELLA												
	_	27	13	4 870	222 149	3 139	6 900	112 886	372 966	197 771	561 807	D
Wood product manufacturing	_	3	2	h	D	D	D	D	D	D	D	D
Other wood product manufacturing	_	3	2	h	D	D	D	D	D	D	D	D
Millwork	_	1	1	h	D	D	D	D	D	D	D	D
manufacturing	-	1	1	h	D	D	D	D	D	D	D	D
					_	_	_	_	_	_	_	_
	_	10	6	†	ט	D	D	D	D	ט	D	D
manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
Manufacturing	_	15	6	631	16 767	488	979	11 869	39 455	131 605	169 845	9 210
SHENANDOAH												
	_	12	3	f	D	D	D	D	D	D	D	1 371
manufacturing	_	2	2	f	D	D	D	D	D	D	D	D
manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
power train parts					D	5	D				D	D
Motor vehicle transmission and power train parts												D
SIOUX CENTER							D				D	
Manufacturing	2	18	8	1 620	36 650	1 439	2 015	27 708	76 266	79 604	163 301	11 892
Wood product manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
Other wood product manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
Millwork	۱ ـ	1	1	g	D	D	D	D	D	D	D	D
	Geographic area and industry  OSCEOLA  Manufacturing Food manufacturing Animal slaughtering and processing Animal slaughtering and processing Animal slaughtering and processing Animal slaughtering OSKALOOSA Manufacturing  Food manufacturing  Food manufacturing Animal slaughtering and processing Animal slaughtering and processing Animal slaughtering and processing Animal slaughtering and processing Animal except poultry) slaughtering  Machinery manufacturing Agriculture, construction, and mining machinery manufacturing Agricultural implement manufacturing Farm machinery and equipment manufacturing Other wood product manufacturing  PELLA  Manufacturing  Wood product manufacturing Other wood product manufacturing Millwork Wood window and door manufacturing  RED OAK Manufacturing  SHELDON Manufacturing  SHELDON Manufacturing  Motor vehicle transmission and power tratin parts manufacturing Motor vehicle transmission and power tratin parts manufacturing Motor vehicle transmission and power tratin parts manufacturing  Motor vehicle transmission and power tratin parts manufacturing  Motor vehicle transmission and power tratin parts manufacturing  SIOUX CENTER Manufacturing  Wood product manufacturing  Other wood product manufacturing	Geographic area and industry  E¹  OSCEOLA  Manufacturing	Geographic area and industry  E¹ Total  OSCEOLA  Manufacturing 8 12 Food manufacturing and processing 9 1 Animal slaughtering and processing 9 1 Animal slaughtering and processing 9 1 Animal slaughtering and processing 9 1 OSKALOOSA  Manufacturing 2 17  OTTUMWA  Manufacturing 19 Food manufacturing 19 Food manufacturing 19 Animal slaughtering and processing 1 Animal slaughtering and processing 11 Animal slaughtering and processing 1  Machinery manufacturing 2  Agriculture, construction, and mining machinery manufacturing 1  Machinery manufacturing 2  Agriculture, construction, and mining machinery and equipment manufacturing 1  Farm machinery and equipment manufacturing 1  Farm machinery and equipment manufacturing 1  PELLA  Manufacturing 27  Wood product manufacturing 10  Fabricated metal product manufacturing 10  Fabricated metal product manufacturing 10  Fabricated metal product manufacturing 15  SHENANDOAH  Manufacturing 12  Transportation equipment 15  SHENANDOAH  Manufacturing 12  Transportation equipment 15  SHENANDOAH  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train parts manufacturing 11  Motor vehicle transmission and power train par	All establishments2	Geographic area and industry	Secographic area and industry	Processing   Pr	All employees   Production work   Production w	All employees   Production workers   Payroll   Number   Payroll   Nu	Canggraphic area and industry   Canggraphic and indust	Cappragnic area and inclusified   Mile   20	Geographic area and industry   C

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terms,	and geographical definitions, see note at	t end	of table. I	For inform	ation on geog	graphic areas	followed by *,	see Append	lix D. For mea	ning of abbrevia	ations and symbo	ols, see introduc	tory text]
			establisl	ll hments <sup>2</sup>	All em	ployees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	SIOUX CITY												
31-33	Manufacturing	3	94	44	5 584	168 471	4 113	7 935	105 475	560 492	1 281 427	1 827 738	27 928
311	Food manufacturing	3	23	17	h	D	D	D	D	D	D	D	16 033
3116	Animal slaughtering and processing	6	8	7	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	6	8	7	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	7	4	4	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing	3	5	4	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing	3	5	4	f	D	D	D	D	D	D	D	D
	SPENCER												
31-33	Manufacturing	-	24	11	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
31-33	SPIRIT LAKE  Manufacturing	_	16	5	g	D	D	D	D	D	D	D	D
01-00	STORM LAKE		10	3	9			D		5		D	D
31-33	Manufacturing	7	12	4	f	D	D	D	D	D	D	D	D
311	Food manufacturing	9	3	1	f	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	9	1	1	f	D	D	D	D	D	D	D	D
311615	processing Poultry processing	9	1	1	f	Ď	Ď	Ď	Ď	Ď	Ď	Ď	Ď
	URBANDALE												
31-33	Manufacturing	-	29	10	1 203	45 405	593	1 166	20 127	239 447	213 838	455 460	3 334
	WASHINGTON												
31-33	Manufacturing	-	15	8	859	25 569	676	1 395	18 135	75 579	54 966	133 987	2 918
	WATERLOO												
31-33	Manufacturing	-	91	42	8 635	376 762	6 305	13 410	239 484	1 720 840	1 583 108	3 324 329	79 330
333 3331	Machinery manufacturing  Agriculture, construction, and	_	11	8	h	D	D	D	D	D	D	D	D
0001	mining machinery manufacturing	_	2	2	h	D	D	D	D	D	D	D	D
33311	Agricultural implement												
333111	manufacturing Farm machinery and	_	2	2	h L	D	D	D	D	D	D	D	D
3336	equipment manufacturing Engine, turbine, and power	-	2	2	h	D	D	D	D	D	D	D	D
0000	transmission equipment manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment												
333618	manufacturing Other engine equipment	-	2	2	f	D	D	D	D	D	D	D	D
337	manufacturing  Furniture and related product	-	1	1	, t	D	D	D	D	D	D	D	D
3371	manufacturing	-	5	2	g	D	D	D	D	D	D	D	D
	furniture and kitchen cabinet manufacturing	-	4	2	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	_	3	2	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing	_	3	2	g	D	D	D	D	D	D	D	D
	WAVERLY												
31-33	Manufacturing	_	14	9	g	D	D	D	D	D	D	D	D
	WEBSTER CITY												
31-33	Manufacturing	-	20	10	2 872	87 339	2 547	4 761	71 903	147 866	534 473	681 984	D
335	Electrical equipment, appliance, and component manufacturing	-	3	3	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	-	3	3	g	D	D	D	D	D	D	D	D
33522 335224	Major appliance manufacturing. Household laundry	-	2	2	g	D	D	D	D	D	D	D	D
•	equipment manufacturing	l –	1	1	l gl	D	D	D	D	D	l D	D	D

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1011113,	and geographical definitions, see note at	Cila			lation on geog	grapriic areas i	onowed by ,	366 Append	iix D. T OI IIIGE	Ining of abbrevia	alions and symbol	ois, see iritioddc	tory text]
			establisl	ll hments <sup>2</sup>	All em	ployees	Pro	oduction work	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	WEST BURLINGTON												
31-33	Manufacturing	-	14	4	g	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	_	1	1	f	D	D	D	D	D	D	D	D
335313	manufacturing Switchgear and switchboard apparatus manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	WEST DES MOINES												
31-33	Manufacturing	-	38	11	1 495	51 355	989	1 814	29 072	102 247	102 349	212 148	4 046
	WEST LIBERTY												
31-33	Manufacturing	9	7	2	g	D	D	D	D	D	D	D	D
311	Food manufacturing	9	3	1	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	9	2	1	g	D	D	D	D	D	D	D	D
31161 311615	Animal slaughtering and processing	9	2	1	g	D D	D D	D D	D D	D D	D D	D D	D D
	WILTON												
31-33	Manufacturing	_	8	5	604	23 439	492	1 000	17 536	57 104	68 939	123 431	1 572
	BALANCE OF ADAIR COUNTY												
31-33	Manufacturing	_	6	2	f	D	D	D	D	D	D	D	D
	BALANCE OF ALLAMAKEE COUNTY												
31-33	Manufacturing	7	18	5	g	D	D	D	D	D	D	D	D
311	Food manufacturing	8	3	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	8	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	8	2	2	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	1	1	f	D	D	D	D	D	D	D	D
	BALANCE OF BLACK HAWK COUNTY												
31-33	Manufacturing	-	19	6	h	D	D	D	D	D	D	D	D
311	Food manufacturing	-	6	3	h	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	-	3	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	_	3	2	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	_	1	1	g	D	D	D	D	D	D	D	D
	BALANCE OF BUCHANAN COUNTY												
31-33	Manufacturing	-	21	7	674	18 476	592	1 244	13 840	64 308	64 437	130 605	D
	BALANCE OF BUENA VISTA COUNTY												
31-33	Manufacturing	-	17	4	g	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				3								
311611	processing	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
	BALANCE OF CEDAR COUNTY												
31-33	Manufacturing	_	24	6	564	19 877	426	761	11 698	45 912	81 398	125 794	630
	BALANCE OF CLAYTON COUNTY											- 7.	
31-33	Manufacturing	1	32	10	1 022	21 522	811	1 472	14 992	49 493	100 753	153 751	9 762

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terris,	and geographical definitions, see note at	enu		All hments <sup>2</sup>		oloyees		duction work		ining of abbrevia	alions and symbol	ns, see introduc	lory text]
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	BALANCE OF CRAWFORD COUNTY					, , , ,		, , , ,			, , ,	, , ,	
31-33	Manufacturing	_	11	5	f	D	D	D	D	D	D	D	13 675
311	Food manufacturing	_	6	4	f	D	D	D	D	D	D	D	D
	BALANCE OF DALLAS COUNTY												
31-33	Manufacturing	-	22	6	1 410	36 950	1 177	2 665	28 685	82 883	216 349	300 198	1 919
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
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D
	BALANCE OF DES MOINES COUNTY												
31-33	Manufacturing	-	16	7	1 514	48 665	865	1 693	30 117	161 084	60 263	220 329	4 651
332	Fabricated metal product manufacturing	-	3	2	g	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
332993	Ammunition (except small arms) manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
	BALANCE OF DICKINSON COUNTY												
31-33	Manufacturing	-	15	3	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
3371	Household and institutional furniture and kitchen cabinet manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing		1	1		D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
	BALANCE OF DUBUQUE COUNTY												
31-33	Manufacturing	_	35	16	3 084	137 770	1 935	3 783	82 137	774 078	746 830	1 526 021	13 372
333	Machinery manufacturing	-	7	4	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing		1	1		D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1	g g	D	D	D	D	D	D	D	D
	BALANCE OF HANCOCK COUNTY												
31-33	Manufacturing	1	24	6	578	16 895	494	932	12 888	38 193	126 669	158 978	2 370
	BALANCE OF HARDIN COUNTY												
31-33	Manufacturing	1	19	5	773	13 742	523	989	8 128	36 118	122 901	160 573	2 051
311	Food manufacturing	1	3	2	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
311611	Animal (except poultry) slaughtering	-	2	1	f	D	D	D	D	D	D	D	D
	BALANCE OF IDA COUNTY												
31-33	Manufacturing	l –	11	4	854	29 303	648	1 287	18 179	89 777	94 147	181 078	4 984

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terris, a	and geographical definitions, see note at	enu	Δ	JI						riirig or abbrevia	alions and symbo	ois, see introduct	lory text]
			establis	hments <sup>2</sup>	All em	oloyees	Pro	oduction wor	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	BALANCE OF IOWA COUNTY												
31-33	Manufacturing	-	21	6	h	D	D	D	D	D	D	D	38 852
333	Machinery manufacturing	_	3	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	_	2	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement		1	1		D	D	D	D	D	D	D	D
333111	manufacturing Farm machinery and equipment manufacturing	_	' 1	1	, ,	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
3352	Household appliance manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
33522 335222	Major appliance manufacturing. Household refrigerator and	-	1	1	g	D	D	D	D	D	D	D	D
	home freezer manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	BALANCE OF JASPER COUNTY												
31-33	Manufacturing	6	27	6	f	D	D	D	D	D	D	D	2 071
	BALANCE OF LINN COUNTY												
31-33	Manufacturing	-	31	4	g	D	D	D	D	D	D	D	D
311	Food manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning,	_	1	1	f	D	D	D	D	D	D	D	D
311423	pickling, and drying Dried and dehydrated food manufacturing	_	' 1	1	f f	D	D	D	D	D	D	D	D
	BALANCE OF LOUISA COUNTY												
31-33	Manufacturing	_	11	5	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	_	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	_	2	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	2	1	g	D	D	D	D	D	D	D	D
	BALANCE OF MARION COUNTY												
31-33	Manufacturing	-	13	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
	BALANCE OF PAGE COUNTY												
31-33	Manufacturing	_	7	3	701	20 838	633	1 222	17 273	58 012	23 800	81 996	D
321	Wood product manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
32191 321911	Millwork	-	1	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	BALANCE OF POCAHONTAS COUNTY												
31-33	Manufacturing	1	18	7	549	19 169	357	754	10 907	38 806	42 496	81 501	677

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terms,	and geographical definitions, see note at	end			ation on geo	graphic areas	followed by *,	, see Append	lix D. For mea	ining of abbrevia	ations and symbo	ols, see introduct	ory text]
			establis	III hments <sup>2</sup>	All em	ployees	Pro	oduction worl	kers				
NAICS code	Geographic area and industry	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
	BALANCE OF POLK COUNTY												
31-33	Manufacturing	-	46	9	3 153	127 732	2 603	4 895	99 015	255 424	428 678	680 177	26 485
326	Plastics and rubber products manufacturing	_	5	4	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 326211	Tire manufacturing Tire manufacturing (except retreading)	_	1	1	g g	D D	D D	D D	D D	D D	D D	D D	D D
336	Transportation equipment manufacturing	_	6	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	_	4	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
04.00	BALANCE OF POTTAWATTAMIE COUNTY				,			1					
31-33 311	Manufacturing	_	16	2	† f	D D	D D	D D	D D	D D	D D	D D	D D
3116	Animal slaughtering and			_									
04404	processing	-	3	1	f	D	D	D	D	D	D	D	D
31161 311612	Animal slaughtering and processing	-	3 2	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	BALANCE OF POWESHIEK COUNTY		_	,		5	5	, c				J	J
31-33	Manufacturing	1	11	5	521	17 467	369	688	9 875	57 259	58 593	116 651	2 734
	BALANCE OF SCOTT COUNTY												
31-33	Manufacturing	_	33	9	2 715	136 737	1 983	4 183	96 144	541 320	488 188	953 383	D
331	Primary metal manufacturing	_	1	1	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	_	1	1	g	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing	_	1	1	g	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
	BALANCE OF SIOUX COUNTY												
31-33	Manufacturing			13	1 684	48 780	1 321	2 749	32 525	125 568	171 459	299 208	5 953
311 332	Food manufacturing  Fabricated metal product	-	11	4	506	14 051	448	923	10 884	38 773	112 093	150 750	2 104
002	manufacturing	3	10	4	538	17 929	410	819	11 926	46 131	20 054	66 330	1 712
04.00	COUNTY		40			1						D	
31-33	Manufacturing  BALANCE OF WEBSTER	1	13	6	'	D	D	D	D	D	D	Ы	D
	COUNTY												_
31-33 325	Manufacturing  Chemical manufacturing	_	17	4 2	1 115 f	40 684 D	575 D	1 320 D	19 384 D	301 431 D	174 065 D	464 610 D	D D
3254	Pharmaceutical and medicine		2	1	' f	D	D	D	D	D	D	D	D
32541	manufacturing  Pharmaceutical and medicine	_		'	'	D		D		D		D	D
325414	manufacturing	-    -	2 2	1	f f	D D	D D	D D	D D	D D	D D	D D	D D
	BALANCE OF WINNEBAGO COUNTY												
31-33	Manufacturing	_	13	5	g	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 336399	Other motor vehicle parts manufacturing	_	1	1	f	D	D	D	D	D	D	D	D
555555	manufacturing	l –	1	1	f	D	D	D	D	D	l D	D	D

[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						
			Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)		Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)		value of shipments	expendi- tures
	BALANCE OF WINNESHIEK COUNTY												
31-33	Manufacturing	3	16	3	576	18 402	499	807	14 312	29 733	22 242	52 151	2 091

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

²Includes establishments with payroll at any time during the year.
³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: f–500 to 999 employees; g–1,000 to 2,499 employees, h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; j–50,000 to 99,999 employees; more.

⁴Number of employees figures represent average number of production workers for pay 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.

period that includes the 12th of March.

# 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
IOWA	
Companies <sup>1</sup> number	N
All establishments <sup>2</sup> number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number Establishments with 100 employees or more number	3 804 2 465 887 452
All employees³       number.         Total compensation       \$1,000.         Annual payroll       \$1,000.         Total fringe benefits       \$1,000.	222 968 10 551 987 8 125 864 2 426 123
Production workers, average for year	163 122 163 410 162 488 164 370 161 882
Production worker hours	322 354 5 108 312
Total cost of materials         \$1,000           Materials, parts, containers, packaging, etc., used         \$1,000           Resales         \$1,000           Purchased fuels         \$1,000           Purchased electricity         \$1,000           Contract work         \$1,000	33 504 006 28 817 079 3 186 801 593 884 531 224 375 018
Quantity of electricity purchased for heat and power	12 812 589 1 110 124
Total value of shipments         \$1,000.           Value of resales         \$1,000.	'65 042 043 4 000 802
Value added\$1,000	'31 394 257
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	5 563 081 2 117 223 1 269 491 2 176 367
Total inventories, end of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	5 168 430 2 163 101 1 077 158 1 928 171
Gross value of depreciable assets (acquisition costs) at beginning of year. \$1,000.  Total capital expenditures (new and used) \$1,000.  Buildings and other structures (new and used) \$1,000.  Machinery and equipment (new and used) \$1,000.  Automobiles, trucks, etc., for highway use \$1,000.  Computers and peripheral data processing equipment \$1,000.  All other expenditures for machinery and equipment \$1,000.  Total retirements \$1,000.  Gross value of depreciable assets at end of year \$1,000.	25 041 350 1 705 013 266 207 1 438 806 41 873 144 734 1 252 199 750 410 25 995 953
Depreciation charges during year\$1,000	1 653 783
Total rental payments       \$1,000.         Buildings and other structures       \$1,000.         Machinery and equipment       \$1,000.	437 556 232 780 204 776

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.

<sup>&</sup>lt;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.

# Appendix A. Explanation of Terms

#### **COMPANY**

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

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

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

#### **Establishment**

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

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

#### **PAYROLL**

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

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

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

#### TOTAL FRINGE BENEFITS

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

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

#### NUMBER OF EMPLOYEES

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

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

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

## **Production Workers**

The "production workers" number includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, ware-housing, 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.
- 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 work-force.

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.

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# Appendix B. NAICS Codes, Titles, and Descriptions

#### **SECTOR 31-33 MANUFACTURING**

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

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

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

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

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

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

Fresh fish packaging (oyster shucking, fish filleting); Apparel jobbing (assigning of materials to contract factories or shops for fabrication or other contract operations) as well as contracting on materials owned by others; Printing and related activities; Ready-mixed concrete production; Leather converting; Grinding of lenses to prescription; Wood preserving; Electroplating, plating, metal heat treating, and polishing for the trade; Lapidary work for the trade; Fabricating signs and advertising displays; Rebuilding or remanufacturing machinery (i.e., automotive parts) Ship repair and renovation; Machine shops; and Tire retreading. Conversely, there are activities that are sometimes considered manufacturing, but which for NAICS are classified in another sector (i.e., not classified as manufacturing).

They include: (1) Logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; (2) The beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; (3) The construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; (4) Establishments engaged in breaking of bulk and redistribution in smaller lots, including packaging, repackaging, or bottling products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing paints to customer order; and cutting metals to customer order, classified in Sector 42, Wholesale Trade or Sector 44-45, Retail Trade, produce a modified version of the same product, not a new product; and (5) Publishing and the combined activity of publishing and printing, classified in Sector 51, Information, perform the transformation of information into a product where as the value of the product to the consumer lies in the information content, not in the format in which it is distributed (i.e., the book or software diskette).

#### **311 FOOD MANUFACTURING**

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

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

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

#### 3111 ANIMAL FOOD MANUFACTURING

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

### **31111 ANIMAL FOOD MANUFACTURING**

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

## 311111 DOG AND CAT FOOD MANUFACTURING

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

# 311119 OTHER ANIMAL FOOD MANUFACTURING

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

# **3112 GRAIN AND OILSEED MILLING**

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

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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).

#### 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 non-chocolate confectionery products not for immediate consumption made on the premises.

# 3114 FRUIT AND VEGETABLE PRESERVING AND SPECIALTY FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in the following:

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

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

# **31141 FROZEN FOOD MANUFACTURING**

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

# 311411 FROZEN FRUIT, JUICE, AND VEGETABLE MANUFACTURING

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

# **311412 FROZEN SPECIALTY FOOD MANUFACTURING**

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

#### 31142 FRUIT AND VEGETABLE CANNING, PICKLING, AND DRYING

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

#### 311421 FRUIT AND VEGETABLE CANNING

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

#### **311422 SPECIALTY CANNING**

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

#### 311423 DRIED AND DEHYDRATED FOOD MANUFACTURING

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

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

# **3115 DAIRY PRODUCT MANUFACTURING**

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

# 31151 DAIRY PRODUCT (EXCEPT FROZEN) MANUFACTURING

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

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

#### 311511 FLUID MILK MANUFACTURING

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

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

#### **311512 CREAMERY BUTTER MANUFACTURING**

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

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#### **311513 CHEESE MANUFACTURING**

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

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

# 311514 DRY, CONDENSED, AND EVAPORATED DAIRY PRODUCT MANUFACTURING

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

#### 31152 ICE CREAM AND FROZEN DESSERT MANUFACTURING

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

#### 311520 ICE CREAM AND FROZEN DESSERT MANUFACTURING

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

#### 3116 ANIMAL SLAUGHTERING AND PROCESSING

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

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

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

#### 31161 ANIMAL SLAUGHTERING AND PROCESSING

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

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

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

# 311611 ANIMAL (EXCEPT POULTRY) SLAUGHTERING

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

# **311612 MEAT PROCESSED FROM CARCASSES**

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

#### 311613 RENDERING AND MEAT BYPRODUCT PROCESSING

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

#### 311615 POULTRY PROCESSING

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

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

#### 3117 SEAFOOD PRODUCT PREPARATION AND PACKAGING

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

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

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

#### 31171 SEAFOOD PRODUCT PREPARATION AND PACKAGING

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

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

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

# **311711 SEAFOOD CANNING**

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

- 1. Canning seafood (including soup) and marine fats and oils and/or
- 2. Smoking, salting, and drying seafood.

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

## 311712 FRESH AND FROZEN SEAFOOD PROCESSING

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

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

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

#### 3118 BAKERIES AND TORTILLA MANUFACTURING

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

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

#### 31181 BREAD AND BAKERY PRODUCT MANUFACTURING

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

#### **311811 RETAIL BAKERIES**

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

#### **311812 COMMERCIAL BAKERIES**

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

#### 311813 FROZEN CAKES, PIES, AND OTHER PASTRIES MANUFACTURING

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

# 31182 COOKIE, CRACKER, AND PASTA MANUFACTURING

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

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

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

## 311821 COOKIE AND CRACKER MANUFACTURING

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

# 311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

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

#### **311823 DRY PASTA MANUFACTURING**

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

#### 311821 COOKIE AND CRACKER MANUFACTURING

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

#### 311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

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

# **311823 DRY PASTA MANUFACTURING**

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

#### **31183 TORTILLA MANUFACTURING**

This industry comprises establishments primarily engaged in manufacturing tortillas.

#### **311830 TORTILLA MANUFACTURING**

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

#### 3119 OTHER FOOD MANUFACTURING

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

# **31191 SNACK FOOD MANUFACTURING**

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

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

# 311911 ROASTED NUTS AND PEANUT BUTTER MANUFACTURING

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

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

# 311919 OTHER SNACK FOOD MANUFACTURING

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

# **31192 COFFEE AND TEA MANUFACTURING**

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

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

#### **311920 COFFEE AND TEA MANUFACTURING**

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

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

# 31193 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

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

# 311930 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

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

# 31194 SEASONING AND DRESSING MANUFACTURING

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

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

# 311941 MAYONNAISE, DRESSING, AND OTHER PREPARED SAUCE MANUFACTURING

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

# **311942 SPICE AND EXTRACT MANUFACTURING**

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

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

#### 31199 ALL OTHER FOOD MANUFACTURING

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

#### 311991 PERISHABLE PREPARED FOOD MANUFACTURING

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

#### 311999 ALL OTHER MISCELLANEOUS FOOD MANUFACTURING

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

#### 312 BEVERAGE AND TOBACCO PRODUCT MANUFACTURING

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

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

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

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

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

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

#### **3121 BEVERAGE MANUFACTURING**

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

### 31211 SOFT DRINK AND ICE MANUFACTURING

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

1. Manufacturing soft drinks;

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

# **312111 SOFT DRINK MANUFACTURING**

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

#### 312112 BOTTLED WATER MANUFACTURING

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

#### **312113 ICE MANUFACTURING**

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

#### **31212 BREWERIES**

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

#### **312120 BREWERIES**

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

#### **31213 WINERIES**

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

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

#### **312130 WINERIES**

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

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

# **31214 DISTILLERIES**

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

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

#### **312140 DISTILLERIES**

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

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

#### 3122 TOBACCO MANUFACTURING

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

# **31221 TOBACCO STEMMING AND REDRYING**

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

#### 312210 TOBACCO STEMMING AND REDRYING

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

#### 31222 TOBACCO PRODUCT MANUFACTURING

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

#### **312221 CIGARETTE MANUFACTURING**

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

#### 312229 OTHER TOBACCO PRODUCT MANUFACTURING

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

#### **313 TEXTILE MILLS**

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

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

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

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

# 3131 FIBER, YARN, AND THREAD MILLS

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

# 31311 FIBER, YARN, AND THREAD MILLS

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

1. spinning yarn

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

#### **313111 YARN SPINNING MILLS**

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

#### 313112 YARN TEXTURIZING, THROWING, AND TWISTING MILLS

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

#### **313113 THREAD MILLS**

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

#### **3132 FABRIC MILLS**

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

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

## 31321 BROADWOVEN FABRIC MILLS

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

#### 313210 BROADWOVEN FABRIC MILLS

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

#### 31322 NARROW FABRIC MILLS AND SCHIFFLI MACHINE EMBROIDERY

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

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

#### 313221 NARROW FABRIC MILLS

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

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

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

#### 313222 SCHIFFLI MACHINE EMBROIDERY

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

### 31323 NONWOVEN FABRIC MILLS

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

### **313230 NONWOVEN FABRIC MILLS**

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

### **31324 KNIT FABRIC MILLS**

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

- 1. knitting weft (i.e., circular) and warp (i.e., flat) fabric
- 2. knitting and finishing weft and warp fabric
- 3. manufacturing lace
- 4. manufacturing, dyeing, and finishing lace and lace goods. Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

# 313241 WEFT KNIT FABRIC MILLS

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

### 313249 OTHER KNIT FABRIC AND LACE MILLS

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

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

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

# 3133 TEXTILE AND FABRIC FINISHING AND FABRIC COATING MILLS

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

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

# 31331 TEXTILE AND FABRIC FINISHING MILLS

This industry comprises:

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

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

#### 313311 BROADWOVEN FABRIC FINISHING MILLS

This U.S. industry comprises:

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

### 313312 TEXTILE AND FABRIC FINISHING (EXCEPT BROADWOVEN FABRIC) MILLS

This U.S. industry comprises:

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

# **31332 FABRIC COATING MILLS**

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

# **313320 FABRIC COATING MILLS**

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

#### **314 TEXTILE PRODUCT MILLS**

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

## **3141 TEXTILE FURNISHINGS MILLS**

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

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

# **31411 CARPET AND RUG MILLS**

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

- 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;

- 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.

#### 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

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.

#### 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 hand-bags 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:

- treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives, such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or
- 2. sawing round wood poles, pilings, and posts and treating them with preservatives.

## 3212 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

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

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

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

# 32121 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

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

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

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

#### 321211 HARDWOOD VENEER AND PLYWOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing hardwood veneer and/or hardwood plywood.

#### 321212 SOFTWOOD VENEER AND PLYWOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing softwood veneer and/or softwood plywood.

# 321213 ENGINEERED WOOD MEMBER (EXCEPT TRUSS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated or laminated wood arches and/or other fabricated or laminated wood structural members.

### **321214 TRUSS MANUFACTURING**

This U.S. industry comprises establishments primarily engaged in manufacturing laminated or fabricated wood roof and floor trusses.

## 321219 RECONSTITUTED WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing reconstituted wood sheets and boards.

### 3219 OTHER WOOD PRODUCT MANUFACTURING

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

#### 32191 MILLWORK

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

# 321911 WOOD WINDOW AND DOOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing window and door units, sash, window and door frames, and doors from wood or wood clad with metal or plastics.

# 321912 CUT STOCK, RESAWING LUMBER, AND PLANING

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

- 1. manufacturing dimension lumber from purchased lumber;
- 2. manufacturing dimension stock (i.e., shapes) or cut stock;
- 3. resawing the output of sawmills; and
- 4. planing purchased lumber.

These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

### 321918 OTHER MILLWORK (INCLUDING FLOORING)

This U.S. industry comprises establishments primarily engaged in manufacturing millwork (except wood windows, wood doors, and cut stock).

### 32192 WOOD CONTAINER AND PALLET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood pallets, wood box shook, 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 shook, wood boxes, other wood containers, and wood parts for pallets and containers.

### 32199 ALL OTHER WOOD PRODUCT MANUFACTURING

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

## 321991 MANUFACTURED HOME (MOBILE HOME) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in making manufactured homes (i.e., mobile homes) and nonresidential mobile buildings. Manufactured homes are designed to accept permanent water, sewer, and utility connections and although equipped with wheels, they are not intended for regular highway movement.

## 321992 PREFABRICATED WOOD BUILDING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated wood buildings and wood sections and panels for prefabricated wood buildings.

#### 321999 ALL OTHER MISCELLANEOUS WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and preservation facilities; establishments manufacturing veneer, engineered wood products, millwork, wood containers, pallets, and wood container parts; and establishments making manufactured homes (i.e., mobile homes) and prefabricated buildings and components).

## **322 PAPER MANUFACTURING**

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

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

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

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

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

## 3221 PULP, PAPER, AND PAPERBOARD MILLS

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

### **32211 PULP MILLS**

This industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

### **322110 PULP MILLS**

This U.S. industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

# **32212 PAPER MILLS**

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

## 322121 PAPER (EXCEPT NEWSPRINT) MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

#### **322122 NEWSPRINT MILLS**

This U.S. industry comprises establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

### **32213 PAPERBOARD MILLS**

This industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

# **322130 PAPERBOARD MILLS**

This U.S. industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

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#### 3222 CONVERTED PAPER PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in converting paper or paper-board 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

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;
- cutting and laminating paper and other flexible materials (except plastics film to plastics film);
- 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 paper-board into products used for writing and similar applications (e.g., looseleaf fillers, notebooks, pads, stationery, and tablets).

## 32229 OTHER CONVERTED PAPER PRODUCT MANUFACTURING

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

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

Processes used include laminating or lining purchased paper or paperboard.

## 322291 SANITARY PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting purchased sanitary paper stock or wadding into sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, sanitary napkins, and tampons.

## 322299 ALL OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper or paperboard into products (except containers, bags, coated and treated paper, stationery products, and sanitary paper products) or converting pulp into pulp products, such as egg cartons, food trays, and other food containers from molded pulp.

# **323 PRINTING AND RELATED SUPPORT ACTIVITIES**

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

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

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

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

#### 3231 PRINTING AND RELATED SUPPORT ACTIVITIES

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

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

#### 32311 PRINTING

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

### 323110 COMMERCIAL LITHOGRAPHIC PRINTING

This U.S. industry comprises establishments primarily engaged in lithographic (i.e., offset) printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in lithographic printing on purchased stock materials, such as stationery, letterhead, invitations, labels, and similar items, on a job order basis.

### **323111 COMMERCIAL GRAVURE PRINTING**

This U.S. industry comprises establishments primarily engaged in gravure printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in gravure printing on purchased stock materials, such as stationery, letterhead, invitations, labels, and similar items, on a job order basis.

## 323112 COMMERCIAL FLEXOGRAPHIC PRINTING

This U.S. industry comprises establishments primarily engaged in flexographic printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in flexographic printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

## **323113 COMMERCIAL SCREEN PRINTING**

This U.S. industry comprises establishments primarily engaged in screen printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in screen printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis. Establishments primarily engaged in printing on apparel and textile products, such as T-shirts, caps, jackets, towels, and napkins, are included in this industry.

### **323114 QUICK PRINTING**

This U.S. industry comprises establishments primarily engaged in traditional printing activities, such as short-run offset printing or prepress services, in combination with providing document photocopying service. Prepress services include receiving documents in electronic format and directly duplicating from the electronic file and formatting, colorizing, and otherwise modifying the original document to improve presentation. These establishments, known as quick printers, generally provide short-run printing and copying with fast turnaround times.

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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.

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
- 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.

#### 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:

- 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:

 mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellant coatings for concrete and masonry, and/or

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:

- mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellant 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.

# 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 unlaminated sheet (except packaging).

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

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

### 326121 UNLAMINATED PLASTICS PROFILE SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

# 326122 PLASTICS PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

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

This industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

# 326130 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

# 32614 POLYSTYRENE FOAM PRODUCT MANUFACTURING

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

## 326140 POLYSTYRENE FOAM PRODUCT MANUFACTURING

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

# 32615 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

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

# 326150 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

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

#### 32616 PLASTICS BOTTLE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

### 326160 PLASTICS BOTTLE MANUFACTURING

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

### 32619 OTHER PLASTICS PRODUCT MANUFACTURING

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

## 326191 PLASTICS PLUMBING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiber-glass plumbing fixtures. Examples of products made by these establishments are plastics or fiber-glass bathtubs, hot tubs, portable toilets, and shower stalls.

# 326192 RESILIENT FLOOR COVERING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing resilient floor coverings for permanent installation.

#### 326199 ALL OTHER PLASTICS PRODUCT MANUFACTURING

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

# 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 lathecutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

## 326299 ALL OTHER RUBBER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

## 327 NONMETALLIC MINERAL PRODUCT MANUFACTURING

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

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

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

#### 3271 CLAY PRODUCT AND REFRACTORY MANUFACTURING

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

## 32711 POTTERY, CERAMICS, AND PLUMBING FIXTURE MANUFACTURING

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

# 327111 VITREOUS CHINA PLUMBING FIXTURE AND CHINA AND EARTHENWARE BATHROOM ACCESSORIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

# 327112 VITREOUS CHINA, FINE EARTHENWARE, AND OTHER POTTERY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

### 327113 PORCELAIN ELECTRICAL SUPPLY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

## 32712 CLAY BUILDING MATERIAL AND REFRACTORIES MANUFACTURING

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

## 327121 BRICK AND STRUCTURAL CLAY TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

# 327122 CERAMIC WALL AND FLOOR TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ceramic wall and floor tiles.

## 327123 OTHER STRUCTURAL CLAY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

## 327124 CLAY REFRACTORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay refractory, mortar, brick, block, tile, and fabricated clay refractories, such as melting pots. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

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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.

#### 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. Readymix 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).

#### 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:

- 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:

- 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:

- 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
- 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
- recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube (except bare or insulated copper communication or energy wire) in integrated mills.

#### 331422 COPPER WIRE (EXCEPT MECHANICAL) DRAWING

This U.S. industry comprises establishments primarily engaged in drawing or drawing and insulating communication and energy wire and cable from purchased copper or in integrated secondary smelting and wire drawing plants.

### 331423 SECONDARY SMELTING, REFINING, AND ALLOYING OF COPPER

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

- 1. recovering copper and copper alloys from scrap and/or
- 2. alloying purchased copper.

Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

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

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

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

# 331491 NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, AND EXTRUDING

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

- 1. rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) from purchased nonferrous metals and/or
- 2. recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) in integrated mills.

# 331492 SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

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

- 1. alloying purchased nonferrous metals and/or
- 2. recovering nonferrous metals from scrap.

Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, and wire) using smelting or refining processes.

## **3315 FOUNDRIES**

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

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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 made castings. Establishments in this industry purchase iron and steel made in other establishments.

## **331511 IRON FOUNDRIES**

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings (e.g., cast iron manhole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

### **331512 STEEL INVESTMENT FOUNDRIES**

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

# **331513 STEEL FOUNDRIES (EXCEPT INVESTMENT)**

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

# **33152 NONFERROUS METAL FOUNDRIES**

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

## **331521 ALUMINUM DIE-CASTING FOUNDRIES**

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum die-castings. Establishments in this industry purchase aluminum made in other establishments.

## 331522 NONFERROUS (EXCEPT ALUMINUM) DIE-CASTING FOUNDRIES

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

## 331524 ALUMINUM FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

## 331525 COPPER FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

#### 331528 OTHER NONFERROUS FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous (except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

### 332 FABRICATED METAL PRODUCT MANUFACTURING

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

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

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

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

### **3321 FORGING AND STAMPING**

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

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

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

### **33211 FORGING AND STAMPING**

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

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

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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

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.

#### 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.

### 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.

#### 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 lawn-mowers, 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:

- 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 woodworking 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 drycleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

### 33331 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

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

### 333311 AUTOMATIC VENDING MACHINE MANUFACTURING

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

- 1. manufacturing coin, token, currency, or magnetic card operated vending machines; and/or
- 2. manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

# 333312 COMMERCIAL LAUNDRY, DRYCLEANING, AND PRESSING MACHINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

### 333313 OFFICE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mailhandling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

#### 333314 OPTICAL INSTRUMENT AND LENS MANUFACTURING

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

- 1. manufacturing optical instruments and lens, such as binoculars, microscopes (except electron and proton), telescopes, prisms, and lenses (except ophthalmic);
- 2. coating or polishing lenses (except ophthalmic); and
- 3. mounting lenses (except ophthalmic).

## 333315 PHOTOGRAPHIC AND PHOTOCOPYING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, and digital), projectors, film developing equipment, photocopying equipment, and microfilm equipment.

### 333319 OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

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

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

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

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

## 333411 AIR PURIFICATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

## 333412 INDUSTRIAL AND COMMERCIAL FAN AND BLOWER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

## 333414 HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

# 333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

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

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

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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).

### 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.

#### 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.

#### 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;
- 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, juke-boxes, and amplifiers for musical instruments and public address systems.

# 33431 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

### 334310 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

## 3344 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

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

### 33441 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

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

### 334411 ELECTRON TUBE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

#### 334412 BARE PRINTED CIRCUIT BOARD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

#### 334413 SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells and other optoelectronic devices.

### 334414 ELECTRONIC CAPACITOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

### 334415 ELECTRONIC RESISTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and variators.

### 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.

### 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.

#### 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 consumertype 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 fiberoptic cable from purchased fiber-optic strand.

## 335929 OTHER COMMUNICATION AND ENERGY WIRE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

#### 33593 WIRING DEVICE MANUFACTURING

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

### 335931 CURRENT-CARRYING WIRING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

#### 335932 NONCURRENT-CARRYING WIRING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

## 33599 ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

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

### 335991 CARBON AND GRAPHITE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

# 335999 ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

## 336 TRANSPORTATION EQUIPMENT MANUFACTURING

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

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

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

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

### 3361 MOTOR VEHICLE MANUFACTURING

This industry group comprises establishments primarily engaged in:

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

## 33611 AUTOMOBILE AND LIGHT DUTY MOTOR VEHICLE MANUFACTURING

This industry comprises establishments primarily engaged in:

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

### 336111 AUTOMOBILE MANUFACTURING

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

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

#### 336112 LIGHT TRUCK AND UTILITY VEHICLE MANUFACTURING

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

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

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

### 33612 HEAVY DUTY TRUCK MANUFACTURING

This industry comprises establishments primarily engaged in:

- manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special purpose heavy duty motor vehicles for highway use or
- 2. manufacturing heavy duty truck chassis only.

## 336120 HEAVY DUTY TRUCK MANUFACTURING

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

- 1. manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special purpose heavy duty motor vehicles for highway use or
- 2. manufacturing heavy duty truck chassis only.

## 3362 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry group comprises establishments primarily engaged in:

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

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

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

### 33621 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry comprises establishments primarily engaged in:

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

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

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

### 336211 MOTOR VEHICLE BODY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

### 336212 TRUCK TRAILER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

#### 336213 MOTOR HOME MANUFACTURING

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

- 1. manufacturing motor homes on purchased chassis and/or
- 2. manufacturing conversion vans on an assembly line basis.

Motor homes are units where the motor and the living quarters are integrated in the same unit.

## 336214 TRAVEL TRAILER AND CAMPER MANUFACTURING

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

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

Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

## 3363 MOTOR VEHICLE PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in:

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

#### 33631 MOTOR VEHICLE GASOLINE ENGINE AND ENGINE PARTS MANUFACTURING

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

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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.

#### 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

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

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).

#### 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 non-wood 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, electromedical and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

#### 339113 SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

#### 339114 DENTAL EQUIPMENT AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material and dental cements.

#### 339115 OPHTHALMIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, reading glasses made to standard powers, and protective eyewear.

# **339116 DENTAL LABORATORIES**

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

#### 3399 OTHER MISCELLANEOUS MANUFACTURING

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

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

#### 33991 JEWELRY AND SILVERWARE MANUFACTURING

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

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

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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).

#### 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

#### SOURCES OF THE DATA

The manufacturing sector includes approximately 350,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing. The amount of information requested from manufacturing establishments was dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the Annual Survey of Manufactures (ASM).

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

- 1. Establishments sent a report form:
  - a. ASM sample establishments. This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments, as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-10000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A. Explanation of Terms, for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 473 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries, as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in certain cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided

for the respondent to describe significant materials not listed on the form.

A wide variety of special inquiries were included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM). Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM). This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated "short form" was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics, because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the "not specified by kind" (nsk) categories.

#### 2. Establishments not sent a report form:

a. Small single-establishment companies not sent a report form. Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and the Census Bureau's ability to assign the correct six-digit NAICS industry classification to the establishment. For each six-digit NAICS industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report that requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments, but were included in the product and material "not specified by kind" (nsk) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit NAICS group classification codes available in the files. For manufacturing, these establishments were sent a

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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/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

#### **INDUSTRY CLASSIFICATION OF ESTABLISHMENTS**

The classifications for all establishments covered in the 2002 Economic Census — Manufacturing are classified in 1 of 473 industries in accordance with the industry definitions in the *North American Industry Classification System (NAICS)*, *United States, 2002* manual. There were no changes between the 2002 edition and the 1997 edition affecting this sector. When applicable, Appendix F of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 2002, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are 1,450 product classes (seven-digit codes), 5,674 census products, and an additional 3,746 ten-digit product codes. The ten-digit products are considered the primary products of the industry with the same first six digits.

For the 2002 Economic Census — Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 2002, there were no "resistance rules" or "frozen industries."

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments that may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

# **ESTABLISHMENT BASIS OF REPORTING**

The 2002 Economic Census — Manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports, if the plant records permit such a separation and if the activities are substantial in size.

In 2002, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures, except for data on number of establishments for a few industries.

The 2002 Economic Census — Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

# **DESCRIPTION OF THE ASM SURVEY SAMPLE**

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

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

1. Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies

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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

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.

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

#### **IOWA**

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

Carlisle is in Polk and Warren Counties.

Clive is in Dallas and Polk Counties.

**Dyersville** is in Delaware and Dubuque Counties.

Forest City is in Hancock and Winnebago Counties.

Grimes is in Dallas and Polk Counties.

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

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

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

Sheldon is in O'Brien and Sioux Counties.

**Shenandoah** is in Fremont and Page Counties.

**Sioux City** is in Plymouth and Woodbury Counties; it annexed into Plymouth County in August 1997. This change deletes territory from the Balance of Plymouth County.

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

**Urbandale** is in Dallas and Polk Counties.

West Des Moines is in Dallas and Polk Counties.

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

Wilton is in Cedar and Muscatine Counties.

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

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

**Balance of Iowa County** no longer includes Marengo and Williamsburg, which are tabulated separately due to a population increase.

**Balance of Plymouth County** lost territory due to the annexation of Sioux City into the county.

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

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

# Appendix E. Metropolitan and Micropolitan Statistical Areas

# AMES-BOONE, IA COMBINED STATISTICAL AREA

# Ames, IA Metropolitan Statistical Area

Story County, IA

# Boone, IA Micropolitan Statistical Area

Boone County, IA

#### DES MOINES-NEWTON, IA COMBINED STATISTICAL AREA

# Des Moines, IA Metropolitan Statistical Area

Dallas County, IA

Guthrie County, IA

Madison County, IA

Polk County, IA

Warren County, IA

# Newton, IA Micropolitan Statistical Area

Jasper County, IA

# OMAHA-COUNCIL BLUFFS-FREMONT, NE-IA COMBINED STATISTICAL AREA

# Fremont, NE Micropolitan Statistical Area

Dodge County, NE

# Omaha-Council Bluffs, NE-IA Metropolitan Statistical Area

Harrison County, IA

Mills County, IA

Pottawattamie County, IA

Cass County, NE

Douglas County, NE

Sarpy County, NE

Saunders County, NE

Washington County, NE

# SIOUX CITY-VERMILLION, IA-NE-SD COMBINED STATISTICAL AREA

# Sioux City, IA-NE-SD Metropolitan Statistical Area

Woodbury County, IA

Dakota County, NE

Dixon County, NE

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Union County, SD

# Vermillion, SD Micropolitan Statistical Area

Clay County, SD

# **BURLINGTON, IA-IL MICROPOLITAN STATISTICAL AREA**

Henderson County, IL

Des Moines County, IA

# CEDAR RAPIDS, IA METROPOLITAN STATISTICAL AREA

Benton County, IA

Jones County, IA

Linn County, IA

# **CLINTON, IA MICROPOLITAN STATISTICAL AREA**

Clinton County, IA

# DAVENPORT-MOLINE-ROCK ISLAND, IA-IL METROPOLITAN STATISTICAL AREA

Henry County, IL

Mercer County, IL

Rock Island County, IL

Scott County, IA

# **DUBUQUE, IA METROPOLITAN STATISTICAL AREA**

Dubuque County, IA

# FORT DODGE, IA MICROPOLITAN STATISTICAL AREA

Webster County, IA

# IOWA CITY, IA METROPOLITAN STATISTICAL AREA

Johnson County, IA

Washington County, IA

# KEOKUK-FORT MADISON, IA-MO MICROPOLITAN STATISTICAL AREA

Lee County, IA

Clark County, MO

# MARSHALLTOWN, IA MICROPOLITAN STATISTICAL AREA

Marshall County, IA

# MASON CITY, IA MICROPOLITAN STATISTICAL AREA

Cerro Gordo County, IA

Worth County, IA

# MUSCATINE, IA MICROPOLITAN STATISTICAL AREA

Louisa County, IA

Muscatine County, IA

# OSKALOOSA, IA MICROPOLITAN STATISTICAL AREA

Mahaska County, IA

# OTTUMWA, IA MICROPOLITAN STATISTICAL AREA

Wapello County, IA

# SPENCER, IA MICROPOLITAN STATISTICAL AREA

Clay County, IA

# SPIRIT LAKE, IA MICROPOLITAN STATISTICAL AREA

Dickinson County, IA

# STORM LAKE, IA MICROPOLITAN STATISTICAL AREA

Buena Vista County, IA

# WATERLOO-CEDAR FALLS, IA METROPOLITAN STATISTICAL AREA

Black Hawk County, IA

Bremer County, IA

Grundy County, IA

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