

Wisconsin

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1997 Economic Census

Manufacturing

Geographic Area Series



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

Helping You Make Informed Decisions

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

ALL-NEW INDUSTRY CLASSIFICATIONS

Data from the 1997 Economic Census are published primarily on the basis of the North American Industry Classification System (NAICS), unlike earlier censuses, which were published according to the Standard Industrial Classification (SIC) system. NAICS is in the process of being adopted in the United States, Canada, and Mexico. Most economic census reports cover one of 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 Foodservices
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), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

RELATIONSHIP TO SIC

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 industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

For 1997, data for auxiliary establishments (those functioning primarily to manage, service, or support the activities of their company's operating establishments, such as a central administrative office or warehouse) will not be included in the sector-specific reports. These data will be published separately.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, 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 Internal Revenue Service tax forms is used as a basis for coding.

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.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 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.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

All results of the 1997 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on compact discs (CD-ROM) for sale by the Census Bureau. Unlike previous censuses, only selected highlights are published in printed reports. For more information, including a description of electronic and printed reports being issued, see the Internet site, or write to U.S. Census Bureau, Washington, DC 20233-8300, or call Customer Services at 301-457-4100.

Special Tabulations

Special tabulations of data collected in the 1997 Economic Census may be obtained, depending on availability of time and personnel, in electronic or tabular form. The data will be summaries subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) that govern the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief of the division named below, U.S. Census Bureau, Washington, DC 20233-8300. To discuss a special tabulation before submitting specifications, call the appropriate division:

Manufacturing and Construction Division 301-457-4673
Service Sector Statistics Division 301-457-2668

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 covering service trades in 1933. Censuses of construction, manufacturing, and the other business service 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, 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 questionnaires.

The range of industries covered in the economic censuses expanded between 1967 and 1992. 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.

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. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including 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 each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census 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.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.

V	Represents less than 50 vehicles or .05 percent.
X	Not applicable.
Y	Disclosure withheld because of insufficient coverage of merchandise lines.
Z	Less than half the unit shown.
a	0 to 19 employees.
b	20 to 99 employees.
c	100 to 249 employees.
e	250 to 499 employees.
f	500 to 999 employees.
g	1,000 to 2,499 employees.
h	2,500 to 4,999 employees.
i	5,000 to 9,999 employees.
j	10,000 to 24,999 employees.
k	25,000 to 49,999 employees.
l	50,000 to 99,999 employees.
m	100,000 employees or more.
p	10 to 19 percent estimated.
q	20 to 29 percent estimated.
r	Revised.
s	Sampling error exceeds 40 percent.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
(CC)	Consolidated city.
(IC)	Independent city.

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Manufacturing

SCOPE

The 1997 Economic Census – Manufacturing covers all manufacturing establishments with one or more paid employees. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

Establishments in the manufacturing sector are often described as plants, factories, or mills and typically use power-driven machines and materials-handling equipment. Also included in the manufacturing sector are some establishments that make products by hand, like custom tailors and the makers of custom draperies. While manufacturers typically do not sell to the public, some establishments like bakeries and candy stores that make products on the premises may be included.

While logging and publishing are no longer in the scope of manufacturing, data for these industries are included in the manufacturing industry reports, but are not included in the manufacturing state, summary, and other reports.

GENERAL

This report, from the 1997 Economic Census – Manufacturing, is one of a series of 480 industry reports and 51 geographic area reports, each of which provides statistics for individual industries or states, respectively. Seven of the industry reports are for industries no longer in the manufacturing sector but are included with manufacturing for the 1997 census year. Also included for this sector are General, Product, and Materials Consumed Summary reports, a special report on Concentration Ratios in Manufacturing, and data files on Location of Manufacturing Plants.

Each industry report presents data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in Appendix B. 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. Explanations of these and other terms may be found in Appendix A. The industry reports also include data for states with 100 employees or more in the industry.

State reports, which include the District of Columbia, present similar statistics at the “all manufacturing” level for each state and its metropolitan areas (MAs) with 250

employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

The General Summary 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.

The Products and Materials Consumed reports summarize the products and materials data published in the industry reports. The Product Summary report also includes data from the Current Industrial Reports (CIR) and a special table with data for products that are primary to more than one industry, which are not in the industry reports.

The Concentration Ratios report publishes data on the percentage of value of shipments accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Hirschmann-Herfindahl Indexes for each industry.

The Location of Manufacturing data files contain 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.

GEOGRAPHIC AREAS COVERED

Statistics at the six-digit NAICS industry level are shown for states and the District of Columbia in both the state and industry reports for cells with 100 employees or more.

The state reports also include data at the “all manufacturing” level for a variety of geographies that meet the employment criteria.

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the

component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

The state reports include data for counties with 500 employees or more. These are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Maryland, Missouri, Nevada, and Virginia have one or more places that are independent of county organizations. These places are treated as counties and places. The counties and places are defined as of January 1, 1997.

The state reports include data for places with 500 employees or more. Places are typically cities, towns, and villages. They may be incorporated municipalities, semi-independent municipalities, special economic urban areas (SEUAs), or other place equivalents.

The state reports also include data for consolidated cities with 500 employees or more. Consolidated cities are made up of separately incorporated municipalities.

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

The adoption of the North American Industry Classification System (NAICS) has had a major impact on the comparability of data between the 1992 and 1997 censuses. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past. If industries are not comparable between the two censuses, historic data are not shown. When applicable, Appendix G shows the product class and product comparability between the two systems.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing.

Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

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 classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

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. However, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that 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 58,000 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 a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

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.

Table 1. Industry Statistics for the State: 1997

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WISCONSIN													
31-33	Manufacturing	-	9 936	3 905	562 479	18 766 395	416 254	837 444	11 952 570	54 947 083	62 446 845	117 382 992	4 092 922
311	Food mfg.....	1	994	424	62 249	1 679 045	48 445	96 755	1 161 102	6 708 729	13 872 022	20 596 744	515 406
3111	Animal food mfg.....	1	81	22	2 031	66 214	1 154	2 342	30 564	226 093	508 161	737 234	17 753
31111	Animal food mfg.....	1	81	22	2 031	66 214	1 154	2 342	30 564	226 093	508 161	737 234	17 753
311111	Dog & cat food mfg....	-	9	2	352	11 481	269	613	8 221	37 152	108 415	145 629	4 389
311119	Other animal food mfg.....	1	72	20	1 679	54 733	885	1 729	22 343	188 941	399 746	591 605	13 364
3112	Grain & oilseed milling	-	20	10	1 055	37 275	846	1 821	26 635	146 564	395 286	544 943	34 795
31121	Flour milling & malt mfg .	-	16	9	624	26 364	458	1 055	17 109	100 840	309 772	416 973	D
311211	Flour milling	-	7	2	125	4 403	97	256	3 170	21 938	114 844	137 419	D
311213	Malt mfg	1	9	7	499	21 961	361	799	13 939	78 902	194 928	279 554	22 464
31123	Breakfast cereal mfg....	-	1	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg..	-	1	1	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	58	16	2 331	61 873	1 723	3 080	34 224	429 380	314 384	761 919	12 542
31132	Chocolate & confectionery mfg from cacao beans.....	-	9	5	1 194	38 180	819	1 472	18 142	351 563	269 307	638 356	D
311320	Chocolate & confectionery mfg from cacao beans ...	-	9	5	1 194	38 180	819	1 472	18 142	351 563	269 307	638 356	D
31133	Confectionery mfg from purchased chocolate...	1	32	9	670	14 775	520	892	9 796	47 417	28 162	76 411	D
311330	Confectionery mfg from purchased chocolate.....	1	32	9	670	14 775	520	892	9 796	47 417	28 162	76 411	D
31134	Nonchocolate confectionery mfg.....	-	17	2	467	8 918	384	716	6 286	30 400	16 915	47 152	1 803
311340	Nonchocolate confectionery mfg ...	-	17	2	467	8 918	384	716	6 286	30 400	16 915	47 152	1 803
3114	Fruit & vegetable preserving & specialty food mfg.....	3	105	76	12 763	308 374	10 847	21 368	231 543	1 273 978	1 306 866	2 579 411	97 597
31141	Frozen food mfg.....	3	37	25	7 380	171 862	6 219	11 520	126 073	776 666	735 503	1 510 593	58 424
311411	Frozen fruit, juice, & vegetable mfg.....	9	12	10	2 946	69 393	2 609	5 099	57 206	322 389	232 855	552 862	26 780
311412	Frozen specialty food mfg.....	-	25	15	4 434	102 469	3 610	6 421	68 867	454 277	502 648	957 731	31 644
31142	Fruit & vegetable canning, pickling, & drying.....	2	68	51	5 383	136 512	4 628	9 848	105 470	497 312	571 363	1 068 818	39 173
311421	Fruit & vegetable canning.....	2	59	45	4 767	117 060	4 128	8 907	91 616	414 794	489 120	905 192	28 953
311422	Specialty canning.....	-	2	2	c	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	-	7	4	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	240	148	16 104	464 199	12 057	24 567	325 576	1 692 920	6 864 868	8 561 181	187 013
31151	Dairy product (except frozen) mfg.....	-	228	144	15 816	457 122	11 849	24 221	321 739	1 665 541	6 815 095	8 483 710	185 166
311511	Fluid milk mfg.....	-	15	10	942	29 865	675	1 542	21 706	172 264	451 017	624 328	5 107
311512	Creamery butter mfg..	-	10	8	663	19 724	361	722	9 666	81 789	495 276	572 640	3 246
311513	Cheese mfg.....	-	176	110	12 463	348 980	9 476	19 225	251 094	1 185 204	5 374 464	6 566 837	150 787
311514	Dry, condensed, & evaporated dairy product mfg.....	-	27	16	1 748	58 553	1 337	2 732	39 273	226 284	494 338	719 905	26 026
31152	Ice cream & frozen dessert mfg.....	2	12	4	288	7 077	208	346	3 837	27 379	49 773	77 471	1 847
311520	Ice cream & frozen dessert mfg.....	2	12	4	288	7 077	208	346	3 837	27 379	49 773	77 471	1 847
3116	Meat product mfg.....	2	123	54	17 470	467 132	14 354	29 214	342 514	1 834 639	3 608 401	5 437 135	91 212
31161	Animal slaughtering & processing.....	2	123	54	17 470	467 132	14 354	29 214	342 514	1 834 639	3 608 401	5 437 135	91 212
311611	Animal (except poultry) slaughtering	4	60	19	4 728	106 122	3 923	8 239	84 686	411 180	1 639 575	2 042 612	13 516
311612	Meat processed from carcasses	-	53	27	10 000	291 529	8 247	16 793	217 061	1 220 072	1 727 625	2 951 126	58 670
311613	Rendering & meat byproduct processing.....	-	5	4	161	4 467	98	196	1 821	20 812	10 355	31 485	570
311615	Poultry processing.....	-	5	4	2 581	65 014	2 086	3 986	38 946	182 575	230 846	411 912	18 456
3118	Bakeries & tortilla mfg.....	-	259	53	6 155	134 220	4 151	7 572	88 431	395 248	260 865	656 509	19 442
31181	Bread & bakery product mfg.....	1	243	44	4 519	84 915	2 796	4 750	52 418	281 557	135 982	417 706	D
311811	Retail bakeries.....	3	178	14	1 414	17 209	827	1 141	10 461	32 035	19 697	51 618	2 150
311812	Commercial bakeries ..	-	60	29	3 050	66 597	1 932	3 534	41 255	246 731	113 672	360 686	6 948
31182	Cookie, cracker, & pasta mfg.....	-	15	9	g	D	D	D	D	D	D	D	10 094
311821	Cookie & cracker mfg .	-	7	5	934	24 809	763	1 451	17 191	79 946	58 721	138 944	D
311822	Flour mixes & dough mfg from purchased flour	-	6	4	677	23 953	573	1 342	18 457	31 081	63 927	94 954	5 163

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WISCONSIN—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3119	Other food mfg	1	98	44	4 248	137 548	3 247	6 677	80 253	700 987	589 005	1 285 319	53 798
31191	Snack food mfg	—	19	10	1 260	43 734	1 011	2 220	25 392	260 082	207 035	465 822	9 102
311919	Other snack food mfg	—	18	9	g	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	6	8	3	139	3 082	61	81	1 070	16 773	18 676	35 282	472
311920	Coffee & tea mfg	6	8	3	139	3 082	61	81	1 070	16 773	18 676	35 282	472
31193	Flavoring syrup & concentrate mfg	—	6	2	132	4 468	76	112	1 632	34 422	9 679	43 693	2 520
311930	Flavoring syrup & concentrate mfg	—	6	2	132	4 468	76	112	1 632	34 422	9 679	43 693	2 520
31194	Seasoning & dressing mfg	1	23	12	1 209	46 520	891	1 749	27 865	235 857	226 176	460 158	25 939
311941	Mayonnaise, dressing, & other prepared sauce mfg	2	11	6	805	29 535	617	1 185	18 595	171 977	141 195	312 687	19 850
311942	Spice & extract mfg	—	12	6	404	16 985	274	564	9 270	63 880	84 981	147 471	6 089
31199	All other food mfg	—	42	17	1 508	39 744	1 208	2 515	24 294	153 853	127 439	280 364	15 765
311991	Perishable prepared food mfg	—	13	5	484	11 843	420	769	7 266	32 054	26 825	57 896	4 615
311999	All other miscellaneous food mfg	—	29	12	1 024	27 901	788	1 746	17 028	121 799	100 614	222 468	11 150
312	Beverage & tobacco product mfg	—	53	16	2 845	127 361	2 100	4 354	97 516	557 570	696 143	1 258 956	28 679
3121	Beverage mfg	—	53	16	2 845	127 361	2 100	4 354	97 516	557 570	696 143	1 258 956	28 679
31211	Soft drink & ice mfg	—	21	7	939	30 113	665	1 490	22 515	134 379	356 167	497 480	7 822
312111	Soft drink mfg	—	12	7	888	28 911	634	1 427	21 761	131 460	353 082	491 455	7 526
31212	Breweries	—	22	7	1 849	95 572	1 409	2 827	74 409	417 693	335 424	751 740	20 461
312120	Breweries	—	22	7	1 849	95 572	1 409	2 827	74 409	417 693	335 424	751 740	20 461
313	Textile mills	—	46	19	2 355	81 982	1 888	4 046	53 689	181 599	199 394	376 091	35 171
3132	Fabric mills	—	29	13	1 732	59 840	1 363	2 894	37 732	123 553	160 395	278 776	33 823
31321	Broadwoven fabric mills	—	8	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	—	8	1	e	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery	1	5	1	c	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	—	11	7	827	32 459	603	1 329	19 581	54 654	124 618	175 195	22 290
313230	Nonwoven fabric mills	—	11	7	827	32 459	603	1 329	19 581	54 654	124 618	175 195	22 290
31324	Knit fabric mills	—	5	4	f	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills	—	5	4	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	—	14	5	535	20 123	445	997	14 373	55 700	34 415	90 169	1 047
31332	Fabric coating mills	—	8	4	485	18 673	405	906	13 344	52 472	31 444	83 972	793
313320	Fabric coating mills	—	8	4	485	18 673	405	906	13 344	52 472	31 444	83 972	793
314	Textile product mills	1	132	20	2 049	47 653	1 693	3 197	29 144	111 468	88 280	197 021	12 135
3141	Textile furnishings mills	1	48	7	638	13 686	517	937	8 409	46 638	34 906	79 251	7 538
31412	Curtain & linen mills	1	46	7	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills	4	37	2	c	D	D	D	D	D	D	D	D
314129	Other household textile product mills	—	9	5	399	9 809	316	618	6 276	39 155	22 335	59 210	7 327
3149	Other textile product mills	1	84	13	1 411	33 967	1 176	2 260	20 735	64 830	53 374	117 770	4 597
31491	Textile bag & canvas mills	1	50	7	895	22 436	787	1 531	13 829	39 771	28 595	68 059	2 054
314911	Textile bag mills	—	8	2	462	12 518	450	933	8 710	22 551	10 393	33 050	D
314912	Canvas & related product mills	1	42	5	433	9 918	337	598	5 119	17 220	18 202	35 009	D
31499	All other textile product mills	1	34	6	516	11 531	389	729	6 906	25 059	24 779	49 711	2 543
314999	All other miscellaneous textile product mills	1	33	6	e	D	D	D	D	D	D	D	D
315	Apparel mfg	—	113	49	3 987	75 972	3 142	5 865	46 742	126 829	130 799	257 318	5 791
3151	Apparel knitting mills	1	9	5	566	14 012	454	979	10 136	25 689	21 338	46 394	1 304
31511	Hosiery & sock mills	—	2	2	e	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	—	2	2	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	4	7	3	c	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	4	6	3	c	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WISCONSIN—Con.													
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg	—	65	26	1 887	34 174	1 545	2 768	21 691	49 202	53 098	103 782	1 178
31521	Cut & sew apparel contractors	4	20	4	159	2 015	150	239	1 704	3 207	946	4 309	198
31522	Men's & boys' cut & sew apparel mfg	1	24	12	757	14 011	609	1 107	8 682	15 900	21 925	39 789	399
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	3	2	c	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	1	18	8	420	6 986	365	658	4 986	10 679	14 628	25 481	349
31523	Women's & girls' cut & sew apparel mfg	—	11	7	723	13 186	591	1 052	8 241	20 571	24 456	44 257	359
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	1	1	c	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	—	2	2	e	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	—	2	2	c	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	10	3	248	4 962	195	370	3 064	9 524	5 771	15 427	222
315299	All other cut & sew apparel mfg	—	5	2	205	4 264	159	314	2 612	8 335	4 731	13 063	D
3159	Apparel accessories & other apparel mfg	1	39	18	1 534	27 786	1 143	2 118	14 915	51 938	56 363	107 142	3 309
31599	Apparel accessories & other apparel mfg	1	39	18	1 534	27 786	1 143	2 118	14 915	51 938	56 363	107 142	3 309
315991	Hat, cap, & millinery mfg	—	6	3	c	D	D	D	D	D	D	D	D
315992	Glove & mitten mfg	2	14	9	439	7 058	366	733	5 176	13 519	18 886	32 364	339
315993	Men's & boys' neckwear mfg	—	2	2	c	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	—	17	4	712	12 257	563	1 053	7 109	15 016	23 042	38 278	2 605
316	Leather & allied product mfg	—	73	35	5 539	133 745	4 138	7 991	82 762	366 077	395 545	772 133	14 273
3161	Leather & hide tanning & finishing	—	21	14	1 668	43 303	1 386	2 797	30 613	109 881	193 316	315 129	4 766
31611	Leather & hide tanning & finishing	—	21	14	1 668	43 303	1 386	2 797	30 613	109 881	193 316	315 129	4 766
316110	Leather & hide tanning & finishing	—	21	14	1 668	43 303	1 386	2 797	30 613	109 881	193 316	315 129	4 766
3162	Footwear mfg	—	21	12	2 784	66 459	2 055	3 742	41 010	210 470	169 192	377 708	8 665
31621	Footwear mfg	—	21	12	2 784	66 459	2 055	3 742	41 010	210 470	169 192	377 708	8 665
316211	Rubber & plastics footwear mfg	—	5	3	g	D	D	D	D	D	D	D	D
316212	House slipper mfg	—	2	2	c	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg	—	7	4	1 370	34 970	907	1 753	19 522	129 657	103 782	228 690	D
316219	Other footwear mfg	—	6	2	129	2 434	105	193	2 083	6 723	2 588	9 118	65
3169	Other leather & allied product mfg	—	31	9	1 087	23 983	697	1 452	11 139	45 726	33 037	79 296	842
31699	Other leather & allied product mfg	—	31	9	1 087	23 983	697	1 452	11 139	45 726	33 037	79 296	842
316991	Luggage mfg	4	11	3	c	D	D	D	D	D	D	D	D
316993	Personal leather good (except women's handbag & purse) mfg	—	5	3	682	16 745	359	789	6 354	30 285	20 856	51 460	D
316999	All other leather good mfg	—	13	3	225	3 946	196	410	2 727	8 150	7 702	16 162	204
321	Wood product mfg	—	683	239	28 030	680 035	23 100	45 159	490 103	1 529 500	2 235 222	3 747 972	103 238
3211	Sawmills & wood preservation	1	171	45	3 393	76 559	2 726	5 080	52 238	174 368	320 751	494 952	15 862
32111	Sawmills & wood preservation	1	171	45	3 393	76 559	2 726	5 080	52 238	174 368	320 751	494 952	15 862
321113	Sawmills	2	162	39	3 115	68 473	2 497	4 639	47 428	155 865	218 659	376 130	14 689
321114	Wood preservation	—	9	6	278	8 086	229	441	4 810	18 503	102 092	118 822	1 173
3212	Veneer, plywood, & engineered wood product mfg	—	58	35	4 188	103 818	3 512	7 135	76 307	228 634	312 015	537 309	17 349
32121	Veneer, plywood, & engineered wood product mfg	—	58	35	4 188	103 818	3 512	7 135	76 307	228 634	312 015	537 309	17 349
321211	Hardwood veneer & plywood mfg	—	23	14	1 949	41 253	1 737	3 466	31 050	83 933	104 939	184 615	5 919
321214	Truss mfg	1	21	11	g	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg	—	12	9	1 120	35 043	920	1 892	26 552	88 769	124 571	214 085	9 185

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WISCONSIN—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg ...	-	454	159	20 449	499 658	16 862	32 944	361 558	1 126 498	1 602 456	2 715 711	70 027
32191	Millwork	-	156	67	12 593	320 269	10 640	21 213	242 604	741 351	1 116 888	1 843 593	47 734
321911	Wood window & door mfg	-	50	30	10 017	263 365	8 475	17 044	201 906	598 688	884 444	1 478 853	35 087
321912	Cut stock, resawing lumber, & planing....	-	57	21	1 159	24 945	961	1 747	17 413	70 849	145 095	207 141	4 881
321918	Other millwork (including flooring) ...	2	49	16	1 417	31 959	1 204	2 422	23 285	71 814	87 349	157 599	7 766
32192	Wood container & pallet mfg	2	160	45	2 746	53 947	2 309	4 242	37 938	101 804	123 113	224 757	7 366
321920	Wood container & pallet mfg	2	160	45	2 746	53 947	2 309	4 242	37 938	101 804	123 113	224 757	7 366
32199	All other wood product mfg	-	138	47	5 110	125 442	3 913	7 489	81 016	283 343	362 455	647 361	14 927
321991	Manufactured home (mobile home) mfg ..	-	5	4	858	22 559	705	1 182	16 672	53 889	68 042	122 152	370
321992	Prefabricated wood building mfg	-	27	15	1 774	51 031	1 174	2 524	26 346	121 391	182 525	304 864	6 693
321999	All other miscellaneous wood product mfg ...	-	106	28	2 478	51 852	2 034	3 783	37 998	108 063	111 888	220 345	7 864
322	Paper mfg	-	254	187	42 828	1 885 193	32 810	69 021	1 267 300	5 813 159	6 873 054	12 651 514	624 559
3221	Pulp, paper, & paperboard mills	-	51	49	23 612	1 168 494	18 238	38 175	783 181	3 525 572	3 599 169	7 102 844	404 838
32211	Pulp mills	-	6	5	625	30 326	493	948	21 582	127 830	170 436	300 296	D
322110	Pulp mills	-	6	5	625	30 326	493	948	21 582	127 830	170 436	300 296	D
32212	Paper mills	-	38	38	21 937	1 092 211	16 915	35 397	729 942	3 225 272	3 274 367	6 476 594	369 890
322121	Paper (except newsprint) mills	-	38	38	21 937	1 092 211	16 915	35 397	729 942	3 225 272	3 274 367	6 476 594	369 890
32213	Paperboard mills	-	7	6	1 050	45 957	830	1 830	31 657	172 470	154 366	325 954	D
322130	Paperboard mills	-	7	6	1 050	45 957	830	1 830	31 657	172 470	154 366	325 954	D
3222	Converted paper product mfg	-	203	138	19 216	716 699	14 572	30 846	484 119	2 287 587	3 273 885	5 548 670	219 721
32221	Paperboard container mfg	-	85	65	7 078	254 695	5 244	11 129	162 927	579 284	861 893	1 435 347	67 346
322211	Corrugated & solid fiber box mfg	-	54	40	4 593	167 877	3 225	6 818	101 385	355 657	578 365	930 370	50 781
322212	Folding paperboard box mfg	-	13	11	1 454	49 802	1 181	2 586	37 020	134 859	153 061	288 240	12 831
322213	Setup paperboard box mfg	-	2	2	c	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, & similar products mfg	-	15	11	773	29 338	655	1 294	20 453	63 295	89 998	152 666	3 516
322215	Nonfolding sanitary food container mfg ...	-	1	1	c	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	39	28	4 340	162 813	3 129	6 789	104 937	634 778	899 035	1 526 346	32 992
322221	Coated & laminated packaging paper & plastics film mfg	-	4	4	518	18 547	386	743	10 620	50 032	85 141	135 362	2 278
322222	Coated & laminated paper mfg	-	22	15	2 889	108 838	2 052	4 430	71 276	482 674	664 448	1 140 111	24 796
322223	Plastics, foil, & coated paper bag mfg	-	2	2	c	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	-	6	3	234	6 087	194	488	4 486	19 507	30 130	49 788	1 008
322225	Laminated aluminum foil mfg for flexible packaging uses	-	2	2	e	D	D	D	D	D	D	D	D
322226	Surface-coated paperboard mfg	-	3	2	123	4 992	76	145	1 928	15 858	32 032	48 056	D
32223	Stationery product mfg ..	1	27	14	1 787	59 977	1 324	2 765	39 286	147 073	185 447	326 761	21 786
322231	Die-cut paper & paperboard office supplies mfg	5	12	6	520	14 829	401	880	9 968	47 171	49 728	96 963	1 865
322232	Envelope mfg	-	7	5	950	33 513	675	1 341	20 367	61 971	78 881	140 899	15 588
322233	Stationery, tablet, & related product mfg ..	-	8	3	317	11 635	248	544	8 951	37 931	56 838	88 899	4 333
32229	Other converted paper product mfg	-	52	31	6 011	239 214	4 875	10 163	176 969	926 452	1 327 510	2 260 216	97 597
322291	Sanitary paper product mfg	-	21	15	4 400	188 442	3 555	7 433	145 529	796 302	1 183 153	1 984 146	88 837
322299	All other converted paper product mfg ...	-	31	16	1 611	50 772	1 320	2 730	31 440	130 150	144 357	276 070	8 760

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WISCONSIN—Con.													
31-33	Manufacturing—Con.												
323	Printing & related support activities.....	1	1 046	281	38 082	1 153 906	28 838	54 730	770 564	2 523 744	1 791 444	4 294 837	190 797
3231	Printing & related support activities.....	1	1 046	281	38 082	1 153 906	28 838	54 730	770 564	2 523 744	1 791 444	4 294 837	190 797
32311	Printing.....	1	927	238	35 290	1 052 190	26 762	50 579	704 348	2 333 562	1 735 095	4 048 571	174 956
323110	Commercial lithographic printing ..	-	445	132	20 146	590 746	15 404	28 681	402 163	1 280 064	792 468	2 059 418	81 630
323111	Commercial gravure printing.....	-	9	3	1 978	56 270	1 855	3 971	54 524	94 992	191 849	284 209	D
323112	Commercial flexographic printing ..	3	36	20	2 457	94 312	1 646	3 344	55 652	289 395	192 933	482 426	22 091
323113	Commercial screen printing.....	1	132	35	4 424	116 140	3 276	6 165	70 294	235 419	174 632	408 091	13 872
323114	Quick printing.....	1	182	16	1 483	34 887	1 005	1 721	21 755	73 228	31 793	105 014	4 867
323116	Manifold business form printing.....	7	24	15	1 231	41 937	966	1 900	29 642	127 764	112 412	239 513	4 502
323117	Book printing.....	-	23	9	2 308	86 462	1 717	3 543	55 950	171 686	187 866	357 939	18 001
323118	Blankbook, looseleaf binder, & device mfg ..	-	3	2	c	D	D	D	D	D	D	D	D
323119	Other commercial printing.....	1	65	5	963	23 416	658	839	9 713	47 466	40 634	88 024	5 262
32312	Support activities for printing.....	1	119	43	2 792	101 716	2 076	4 151	66 216	190 182	56 349	246 266	15 841
323121	Tradebinding & related work.....	1	29	12	696	18 802	571	1 126	13 380	35 252	9 873	45 430	1 327
323122	Prepress services.....	1	90	31	2 096	82 914	1 505	3 025	52 836	154 930	46 476	200 836	14 514
324	Petroleum & coal products mfg.....	1	18	5	418	18 220	237	446	10 197	71 119	323 639	402 337	6 834
3241	Petroleum & coal products mfg.....	1	18	5	418	18 220	237	446	10 197	71 119	323 639	402 337	6 834
32411	Petroleum refineries ..	-	2	1	c	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	2	1	c	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg.....	1	8	1	c	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture & block mfg.....	1	8	1	c	D	D	D	D	D	D	D	D
32419	Other petroleum & coal products mfg.....	6	8	3	160	5 909	72	127	1 857	20 383	31 774	52 688	1 266
324191	Petroleum lubricating oil & grease mfg.....	6	5	2	c	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	307	133	12 425	496 549	6 913	13 774	227 099	2 888 523	1 990 495	4 896 475	129 481
3251	Basic chemical mfg.....	-	38	16	2 019	78 091	1 051	2 112	36 499	279 635	184 064	462 301	30 704
32518	Other basic inorganic chemical mfg.....	-	12	2	291	11 468	217	445	7 716	60 855	50 019	112 409	4 201
325188	All other basic inorganic chemical mfg.....	-	11	1	c	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg.....	-	14	9	1 534	58 132	726	1 450	25 198	178 486	87 859	252 382	18 329
325199	All other basic organic chemical mfg.....	-	13	8	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	-	10	7	728	24 199	512	1 034	15 742	79 087	109 706	188 303	10 110
32521	Resin & synthetic rubber mfg.....	-	10	7	728	24 199	512	1 034	15 742	79 087	109 706	188 303	10 110
325211	Plastics material & resin mfg.....	-	7	6	f	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg..	3	3	1	c	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	2	23	8	536	15 129	314	560	6 371	62 422	67 645	130 187	2 569
32531	Fertilizer mfg.....	4	17	4	194	4 868	131	254	2 879	27 431	40 163	67 565	1 172
325314	Fertilizer (mixing only) mfg.....	4	14	4	176	4 433	117	227	2 575	26 103	38 969	65 019	1 088
32532	Pesticide & other agricultural chemical mfg.....	-	6	4	342	10 261	183	306	3 492	34 991	27 482	62 622	1 397
325320	Pesticide & other agricultural chemical mfg.....	-	6	4	342	10 261	183	306	3 492	34 991	27 482	62 622	1 397
3254	Pharmaceutical & medicine mfg.....	-	35	21	1 908	85 044	830	1 673	25 838	306 895	131 414	449 768	18 819
32541	Pharmaceutical & medicine mfg.....	-	35	21	1 908	85 044	830	1 673	25 838	306 895	131 414	449 768	18 819
325412	Pharmaceutical preparation mfg.....	-	11	6	804	42 192	239	455	8 350	194 890	66 616	274 460	8 666
325413	In-vitro diagnostic substance mfg.....	1	6	5	241	8 313	115	198	3 450	30 326	27 210	58 025	1 961
325414	Biological product (except diagnostic) mfg.....	-	13	9	798	32 274	433	922	12 955	74 778	24 680	97 680	6 568

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WISCONSIN—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3255	Paint, coating, & adhesive mfg	1	61	25	2 426	95 111	1 303	2 759	41 259	442 732	428 549	862 642	18 237
32551	Paint & coating mfg	—	42	18	2 002	79 247	1 066	2 271	34 077	377 550	327 753	696 849	14 851
325510	Paint & coating mfg	—	42	18	2 002	79 247	1 066	2 271	34 077	377 550	327 753	696 849	14 851
32552	Adhesive mfg	2	19	7	424	15 864	237	488	7 182	65 182	100 796	165 793	3 386
325520	Adhesive mfg	2	19	7	424	15 864	237	488	7 182	65 182	100 796	165 793	3 386
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	62	29	3 399	146 743	2 140	4 172	77 510	1 492 498	779 981	2 291 126	39 928
32561	Soap & cleaning compound mfg	—	54	25	3 166	142 202	1 950	3 750	75 335	1 479 729	771 064	2 270 504	39 388
325611	Soap & other detergent mfg	3	26	9	621	19 758	334	562	8 893	62 636	59 921	121 964	3 865
325612	Polish & other sanitation good mfg ..	—	23	12	2 389	115 410	1 554	3 052	63 919	1 388 674	670 011	2 078 967	32 657
325613	Surface active agent mfg	6	5	4	156	7 034	62	136	2 523	28 419	41 132	69 573	2 866
32562	Toilet preparation mfg ..	1	8	4	233	4 541	190	422	2 175	12 769	8 917	20 622	540
325620	Toilet preparation mfg ..	1	8	4	233	4 541	190	422	2 175	12 769	8 917	20 622	540
3259	Other chemical product mfg	2	78	27	1 409	52 232	763	1 464	23 880	225 254	289 136	512 148	9 114
32591	Printing ink mfg	4	21	8	433	17 021	248	519	9 494	78 460	117 524	195 384	2 930
325910	Printing ink mfg	4	21	8	433	17 021	248	519	9 494	78 460	117 524	195 384	2 930
32599	All other chemical product & preparation mfg	1	57	19	976	35 211	515	945	14 386	146 794	171 612	316 764	6 184
325991	Custom compounding of purchased resin ...	1	27	6	e	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg	—	4	1	c	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg	1	26	12	528	19 828	268	504	8 105	97 838	113 688	210 130	3 446
326	Plastics & rubber products mfg	—	463	270	31 609	933 438	24 993	49 991	639 051	2 523 104	2 390 842	4 922 484	258 215
3261	Plastics product mfg	—	415	240	28 252	826 941	22 286	44 525	563 000	2 213 584	2 168 193	4 389 071	241 650
32611	Unsupported plastics film, sheet, & bag mfg ..	—	70	49	6 852	235 941	5 426	12 014	168 778	702 021	946 209	1 648 931	99 175
326111	Unsupported plastics bag mfg	—	17	12	1 941	63 782	1 507	2 956	41 134	146 118	173 287	319 143	8 886
326112	Unsupported plastics packaging film & sheet mfg	—	20	18	3 361	122 742	2 740	6 587	95 515	418 930	571 332	992 691	68 927
326113	Unsupported plastics film & sheet (except packaging) mfg	1	33	19	1 550	49 417	1 179	2 471	32 129	136 973	201 590	337 097	21 362
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	33	14	1 139	32 389	898	1 802	20 467	72 327	82 248	153 182	7 324
326121	Unsupported plastics profile shape mfg	1	26	12	875	24 225	692	1 381	14 917	50 069	36 784	86 478	4 616
326122	Plastics pipe & pipe fitting mfg	—	7	2	264	8 164	206	421	5 550	22 258	45 464	66 704	2 708
32614	Polystyrene foam product mfg	—	8	6	491	14 326	392	794	10 347	56 326	32 821	91 071	3 319
326140	Polystyrene foam product mfg	—	8	6	491	14 326	392	794	10 347	56 326	32 821	91 071	3 319
32615	Urethane & other foam product (except polystyrene) mfg	1	11	7	670	17 108	526	863	11 442	43 914	58 933	102 930	2 660
326150	Urethane & other foam product (except polystyrene) mfg	1	11	7	670	17 108	526	863	11 442	43 914	58 933	102 930	2 660
32616	Plastics bottle mfg	—	5	4	280	8 208	227	464	5 022	15 571	22 684	38 761	4 941
326160	Plastics bottle mfg	—	5	4	280	8 208	227	464	5 022	15 571	22 684	38 761	4 941
32619	Other plastics product mfg	—	278	160	18 773	517 918	14 780	28 531	346 171	1 320 384	1 022 610	2 348 454	124 045
326191	Plastics plumbing fixture mfg	1	8	1	136	4 152	112	234	3 040	7 968	3 934	12 013	210
326199	All other plastics product mfg	—	270	159	18 637	513 766	14 668	28 297	343 131	1 312 416	1 018 676	2 336 441	123 835
3262	Rubber product mfg	2	48	30	3 357	106 497	2 707	5 466	76 051	309 520	222 649	533 413	16 565
32622	Rubber & plastics hoses & belting mfg	—	2	2	e	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg ..	—	2	2	e	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	3	38	28	2 831	85 931	2 247	4 539	58 621	264 489	162 378	427 332	13 412
326291	Rubber product mfg for mechanical use	3	13	10	1 023	32 001	802	1 697	21 468	69 070	38 192	107 687	3 686
326299	All other rubber product mfg	3	25	18	1 808	53 930	1 445	2 842	37 153	195 419	124 186	319 645	9 726

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WISCONSIN—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	386	106	10 524	348 880	8 302	16 544	247 975	1 211 600	815 635	2 034 946	125 076
3271	Clay product & refractory mfg	1	32	7	1 063	31 689	885	1 732	25 180	84 533	18 140	108 402	1 807
32711	Pottery, ceramics, & plumbing fixture mfg	—	29	6	g	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	1	1	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg	2	24	4	c	D	D	D	D	D	D	D	359
327113	Porcelain electrical supply mfg	—	4	1	224	5 853	184	391	4 013	11 382	2 970	14 358	D
3272	Glass & glass product mfg	—	52	15	3 142	96 859	2 668	5 238	74 946	263 189	283 972	544 435	66 236
32721	Glass & glass product mfg	—	52	15	3 142	96 859	2 668	5 238	74 946	263 189	283 972	544 435	66 236
327211	Flat glass mfg	—	3	2	f	D	D	D	D	D	D	D	D
327213	Glass container mfg	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	42	12	2 207	64 827	1 857	3 640	49 893	122 882	242 921	364 027	D
3273	Cement & concrete product mfg	2	235	64	4 102	150 228	2 943	6 247	97 361	373 638	336 980	712 584	37 018
32732	Ready-mix concrete mfg	2	139	38	2 165	78 180	1 628	3 505	54 621	182 873	211 136	395 230	22 617
327320	Ready-mix concrete mfg	2	139	38	2 165	78 180	1 628	3 505	54 621	182 873	211 136	395 230	22 617
32733	Concrete pipe, brick, & block mfg	1	35	12	664	25 159	367	790	12 239	74 606	61 529	136 907	D
327331	Concrete block & brick mfg	—	23	7	404	14 322	187	406	5 569	40 975	39 574	81 636	4 306
327332	Concrete pipe mfg	1	12	5	260	10 837	180	384	6 670	33 631	21 955	55 271	D
32739	Other concrete product mfg	2	58	13	1 243	45 994	933	1 920	29 890	112 687	61 717	174 332	7 177
327390	Other concrete product mfg	2	58	13	1 243	45 994	933	1 920	29 890	112 687	61 717	174 332	7 177
3274	Lime & gypsum product mfg	1	9	5	199	6 633	169	362	5 156	23 376	21 766	45 529	2 580
32741	Lime mfg	—	5	4	156	5 361	134	286	4 247	19 870	17 049	37 189	2 340
327410	Lime mfg	—	5	4	156	5 361	134	286	4 247	19 870	17 049	37 189	2 340
3279	Other nonmetallic mineral product mfg	—	58	15	2 018	63 471	1 637	2 965	45 332	466 864	154 777	623 996	17 435
32791	Abrasive product mfg	—	6	4	g	D	D	D	D	D	D	D	D
327910	Abrasive product mfg	—	6	4	g	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg	1	52	11	f	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg	1	21	7	372	10 152	299	606	6 692	23 419	10 867	33 412	4 340
327993	Mineral wool mfg	1	10	2	292	10 298	235	539	7 518	16 186	33 443	49 901	1 505
327999	All other miscellaneous nonmetallic mineral product mfg	3	14	2	181	6 314	126	275	3 989	19 351	15 325	34 767	1 219
331	Primary metal mfg	—	196	135	26 396	912 589	21 307	45 268	665 875	2 320 724	1 973 888	4 297 960	173 679
3311	Iron & steel mills & ferroalloy mfg	—	6	3	e	D	D	D	D	D	D	D	5 508
33111	Iron & steel mills & ferroalloy mfg	—	6	3	e	D	D	D	D	D	D	D	5 508
331111	Iron & steel mills	—	5	2	c	D	D	D	D	D	D	D	D
331112	Electrometallurgical ferroalloy product mfg	—	1	1	c	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	19	11	1 649	63 124	1 165	2 489	37 509	145 762	244 621	389 359	13 253
33121	Iron & steel pipes & tubes mfg from purchased steel	—	5	4	888	36 123	647	1 516	21 960	86 427	109 950	194 130	7 034
331210	Iron & steel pipes & tubes mfg from purchased steel	—	5	4	888	36 123	647	1 516	21 960	86 427	109 950	194 130	7 034
33122	Rolling & drawing of purchased steel	—	14	7	761	27 001	518	973	15 549	59 335	134 671	195 229	6 219
331221	Cold-rolled steel shape mfg	—	9	3	323	13 187	240	487	8 044	35 857	107 472	143 521	1 822
331222	Steel wire drawing	—	5	4	438	13 814	278	486	7 505	23 478	27 199	51 708	4 397
3313	Alumina & aluminum production & processing	—	6	6	562	17 917	400	877	10 872	58 069	179 715	235 351	3 792
33131	Alumina & aluminum production & processing	—	6	6	562	17 917	400	877	10 872	58 069	179 715	235 351	3 792
331314	Secondary smelting & alloying of aluminum	—	3	3	161	7 231	115	300	4 415	30 520	125 877	155 012	1 760
331316	Aluminum extruded product mfg	—	2	2	e	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	WISCONSIN—Con.													
	Manufacturing—Con.													
331	Primary metal mfg—Con.													
3314	Nonferrous metal (except aluminum) production & processing.....	-	16	6	f	D	D	D	D	D	D	D	5 198	
33141	Nonferrous metal (except aluminum) smelting & refining.....	1	2	1	c	D	D	D	D	D	D	D	D	
331419	Other nonferrous metal primary smelting & refining.....	1	2	1	c	D	D	D	D	D	D	D	D	
33142	Copper rolling, drawing, extruding, & alloying ...	-	5	3	f	D	D	D	D	D	D	D	D	
331421	Copper rolling, drawing, & extruding .	-	5	3	f	D	D	D	D	D	D	D	D	
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	1	9	2		186	7 041	107	216	2 662	17 307	27 126	44 716	999
331491	Other nonferrous metal rolling, drawing, & extruding	-	5	2		164	6 288	92	185	2 169	15 802	20 774	36 726	D
3315	Foundries	-	149	109		22 917	779 172	18 830	40 020	584 815	1 882 728	1 324 313	3 210 263	145 928
33151	Ferrous metal foundries .	-	74	65		14 852	511 259	12 104	25 321	383 012	1 283 079	798 645	2 076 830	71 287
331511	Iron foundries	-	46	41		10 398	369 295	8 594	18 454	286 937	955 243	628 373	1 577 104	42 992
331512	Steel investment foundries	-	10	9		1 452	42 072	1 198	2 315	31 244	95 148	44 556	139 727	7 323
331513	Steel foundries (except investment)	-	18	15		3 002	99 892	2 312	4 552	64 831	232 688	125 716	359 999	20 972
33152	Nonferrous metal foundries	1	75	44		8 065	267 913	6 726	14 699	201 803	599 649	525 668	1 133 433	74 641
331521	Aluminum die-casting foundries	2	19	15		3 063	106 761	2 480	5 775	81 344	239 584	235 632	484 033	23 146
331522	Nonferrous (except aluminum) die-casting foundries	-	10	5		208	6 114	169	335	4 192	17 173	11 847	28 746	760
331524	Aluminum foundries (except die-casting) ..	-	32	16		3 627	118 090	3 101	6 509	88 214	258 658	229 203	487 870	43 082
331525	Copper foundries (except die-casting) ..	1	11	8		1 162	36 776	973	2 073	27 942	83 880	48 795	132 236	7 641
332	Fabricated metal product mfg	-	1 968	727		73 682	2 354 762	56 155	110 909	1 538 382	5 830 191	4 190 495	10 008 478	418 114
3321	Forging & stamping	-	142	84		9 391	326 310	7 069	14 163	215 473	722 527	624 228	1 338 686	73 921
33211	Forging & stamping	-	142	84		9 391	326 310	7 069	14 163	215 473	722 527	624 228	1 338 686	73 921
332111	Iron & steel forging	-	12	7		2 180	96 596	1 684	3 102	69 150	201 320	195 881	393 817	15 118
332112	Nonferrous forging	-	2	1	c	D	D	D	D	D	D	D	D	D
332114	Custom roll forming	-	12	4	e	D	D	D	D	D	D	D	D	D
332116	Metal stamping	-	109	68		5 906	189 754	4 493	9 229	122 752	405 830	352 628	754 720	40 084
332117	Powder metallurgy part mfg	-	6	4		803	22 403	542	995	11 365	63 728	29 312	92 628	8 784
3322	Cutlery & handtool mfg	-	60	27		6 079	187 635	4 777	8 760	123 844	583 136	341 408	928 584	21 034
33221	Cutlery & handtool mfg ..	-	60	27		6 079	187 635	4 777	8 760	123 844	583 136	341 408	928 584	21 034
332211	Cutlery & flatware (except precious) mfg	-	9	3	g	D	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg .	1	41	15	g	D	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	-	9	9		3 050	99 874	2 372	4 867	65 902	354 714	197 301	563 907	8 103
3323	Architectural & structural metals mfg	-	307	137		13 226	429 613	9 535	19 465	266 412	944 855	867 966	1 801 615	57 583
33231	Plate work & fabricated structural product mfg ..	-	138	61		4 616	150 139	3 415	6 924	94 611	347 419	361 077	698 591	13 838
332311	Prefabricated metal building & component mfg	-	15	6		650	25 152	437	933	13 513	61 498	77 416	139 223	1 340
332312	Fabricated structural metal mfg	-	71	33		2 404	78 990	1 710	3 541	48 485	191 720	217 978	400 792	6 855
332313	Plate work mfg	-	52	22		1 562	45 997	1 268	2 450	32 613	94 201	65 683	158 576	5 643
33232	Ornamental & architectural metal products mfg	-	169	76		8 610	279 474	6 120	12 541	171 801	597 436	506 889	1 103 024	43 745
332321	Metal window & door mfg	-	37	20		2 724	81 041	1 927	3 912	49 344	188 088	211 881	398 437	4 493
332322	Sheet metal work mfg .	-	90	46		4 942	171 323	3 557	7 386	107 426	363 523	249 747	614 215	36 309
332323	Ornamental & architectural metal work mfg	1	42	10		944	27 110	636	1 243	15 031	45 825	45 261	90 372	2 943
3324	Boiler, tank, & shipping container mfg	-	74	52		4 915	171 975	3 779	8 124	122 814	399 027	644 518	1 042 478	33 202
33241	Power boiler & heat exchanger mfg	-	19	12		1 362	48 888	1 004	2 279	32 270	105 334	67 017	172 421	8 610
332410	Power boiler & heat exchanger mfg	-	19	12		1 362	48 888	1 004	2 279	32 270	105 334	67 017	172 421	8 610
33242	Metal tank (heavy gauge) mfg	-	26	22		1 835	55 292	1 372	2 830	37 071	104 794	88 507	191 962	6 170
332420	Metal tank (heavy gauge) mfg	-	26	22		1 835	55 292	1 372	2 830	37 071	104 794	88 507	191 962	6 170

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WISCONSIN—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg—Con.												
33243	Metal can, box, & other metal container (light gauge) mfg	—	29	18	1 718	67 795	1 403	3 015	53 473	188 899	488 994	678 095	18 422
332431	Metal can mfg	—	14	14	1 474	61 237	1 196	2 583	48 852	173 052	478 175	651 643	17 994
332439	Other metal container mfg	1	15	4	244	6 558	207	432	4 621	15 847	10 819	26 452	428
3325	Hardware mfg	3	30	15	3 447	110 160	2 736	4 764	73 314	285 519	163 971	445 889	16 341
33251	Hardware mfg	3	30	15	3 447	110 160	2 736	4 764	73 314	285 519	163 971	445 889	16 341
332510	Hardware mfg	3	30	15	3 447	110 160	2 736	4 764	73 314	285 519	163 971	445 889	16 341
3326	Spring & wire product mfg .	1	40	23	1 725	52 684	1 367	2 641	33 172	104 717	60 204	164 270	8 344
33261	Spring & wire product mfg	1	40	23	1 725	52 684	1 367	2 641	33 172	104 717	60 204	164 270	8 344
332612	Spring (light gauge) mfg	1	9	7	669	25 673	531	1 118	15 691	54 875	28 911	83 700	4 974
332618	Other fabricated wire product mfg	—	31	16	1 056	27 011	836	1 523	17 481	49 842	31 293	80 570	3 370
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	859	216	16 959	529 987	13 302	25 837	355 642	1 156 266	610 439	1 759 061	112 685
33271	Machine shops	1	724	159	12 336	383 955	9 542	18 134	256 121	804 791	422 815	1 222 144	79 254
332710	Machine shops	1	724	159	12 336	383 955	9 542	18 134	256 121	804 791	422 815	1 222 144	79 254
33272	Turned product & screw, nut, & bolt mfg	—	135	57	4 623	146 032	3 760	7 703	99 521	351 475	187 624	536 917	33 431
332721	Precision turned product mfg	—	110	47	3 535	112 667	2 885	5 973	77 485	227 016	104 928	331 529	24 628
332722	Bolt, nut, screw, rivet, & washer mfg	—	25	10	1 088	33 365	875	1 730	22 036	124 459	82 696	205 388	8 803
3328	Coating, engraving, heat treating, & allied activities .	2	218	79	5 785	150 827	4 595	9 218	100 305	356 959	155 292	511 744	25 831
33281	Coating, engraving, heat treating, & allied activities	2	218	79	5 785	150 827	4 595	9 218	100 305	356 959	155 292	511 744	25 831
332811	Metal heat treating	5	34	18	995	34 226	718	1 583	21 407	116 867	62 589	179 331	10 627
332812	Metal coating/engraving (exc jewelry/silverware)/ allied services	1	77	32	2 308	53 880	1 892	3 823	37 608	121 711	51 592	172 637	6 947
332813	Electroplating, plating, polishing, anodizing, & coloring	—	107	29	2 482	62 721	1 985	3 812	41 290	118 381	41 111	159 776	8 257
3329	Other fabricated metal product mfg	—	238	94	12 155	395 571	8 995	17 937	247 406	1 277 185	722 469	2 016 151	69 173
33291	Metal valve mfg	—	26	21	4 585	158 566	3 264	6 637	96 258	472 870	309 597	801 518	33 897
332911	Industrial valve mfg . . .	—	7	7	1 325	46 668	941	2 114	27 432	165 427	83 800	262 492	7 329
332912	Fluid power valve & hose fitting mfg	—	13	8	2 303	79 122	1 709	3 382	48 913	219 169	147 737	367 906	21 813
332919	Other metal valve & pipe fitting mfg	—	5	5	f	D	D	D	D	D	D	D	4 755
33299	All other fabricated metal product mfg	—	212	73	7 570	237 005	5 731	11 300	151 148	804 315	412 872	1 214 633	35 276
332991	Ball & roller bearing mfg	—	3	2	162	9 529	116	258	4 463	15 489	6 616	21 675	1 018
332992	Small arms ammunition mfg	—	4	1	c	D	D	D	D	D	D	D	20
332993	Ammunition (except small arms) mfg	—	3	2	e	D	D	D	D	D	D	D	D
332994	Small arms mfg	1	7	2	238	5 687	191	373	3 728	22 033	8 577	30 228	454
332995	Other ordnance & accessories mfg	5	5	3	177	5 412	111	206	2 472	15 446	8 900	23 021	D
332996	Fabricated pipe & pipe fitting mfg	—	24	10	793	25 150	531	1 056	14 750	62 268	37 145	99 736	2 000
332997	Industrial pattern mfg . .	—	59	13	993	42 271	830	1 702	32 882	75 521	19 690	94 981	5 980
332998	Enameled iron & metal sanitary ware mfg . . .	—	2	2	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	105	38	2 764	81 004	2 040	3 939	51 123	177 140	187 185	364 283	12 682
333	Machinery mfg	—	1 258	551	86 043	3 380 320	55 652	112 021	1 907 290	8 413 890	7 838 299	16 232 674	544 925
3331	Agriculture, construction, & mining machinery mfg	—	141	84	17 188	673 290	11 230	22 906	394 930	2 005 139	2 564 149	4 562 277	157 983
33311	Agricultural implement mfg	—	78	42	9 052	333 071	6 322	12 691	203 161	1 139 711	1 552 624	2 679 189	110 039
333111	Farm machinery & equipment mfg	—	66	33	5 697	173 591	4 027	7 836	104 191	514 758	690 824	1 194 651	57 188
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	12	9	3 355	159 480	2 295	4 855	98 970	624 953	861 800	1 484 538	52 851
33312	Construction machinery mfg	—	58	39	7 539	314 014	4 603	9 547	179 807	761 462	918 210	1 691 328	41 589
333120	Construction machinery mfg	—	58	39	7 539	314 014	4 603	9 547	179 807	761 462	918 210	1 691 328	41 589

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WISCONSIN—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3331	Agriculture, construction, & mining machinery mfg—Con.												
33313	Mining & oil & gas field machinery mfg	-	5	3	597	26 205	305	668	11 962	103 966	93 315	191 760	6 355
333131	Mining machinery & equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	198	91	12 623	516 460	7 568	15 847	267 908	1 195 054	966 030	2 117 992	59 392
33321	Sawmill & woodworking machinery mfg	-	10	4	261	9 728	138	269	4 847	18 946	18 258	38 755	545
333210	Sawmill & woodworking machinery mfg	-	10	4	261	9 728	138	269	4 847	18 946	18 258	38 755	545
33322	Plastics & rubber industry machinery mfg	-	14	8	659	23 979	396	886	11 227	48 922	45 347	93 549	1 440
333220	Plastics & rubber industry machinery mfg	-	14	8	659	23 979	396	886	11 227	48 922	45 347	93 549	1 440
33329	Other industrial machinery mfg	-	174	79	11 703	482 753	7 034	14 692	251 834	1 127 186	902 425	1 985 688	57 407
333291	Paper industry machinery mfg	-	48	32	6 317	261 952	3 681	7 497	130 844	634 165	531 540	1 143 612	28 294
333293	Printing machinery & equipment mfg	-	25	10	2 250	101 703	1 373	2 803	54 839	227 581	163 536	375 011	10 681
333294	Food product machinery mfg	1	42	19	1 792	71 336	1 153	2 553	41 171	154 742	102 547	246 689	D
333295	Semiconductor machinery mfg	-	2	1	c	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	1	56	17	g	D	D	D	D	D	D	D	10 621
3333	Commercial & service industry machinery mfg ..	1	66	34	3 651	121 978	2 292	4 668	56 065	543 865	285 134	825 512	24 563
33331	Commercial & service industry machinery mfg	1	66	34	3 651	121 978	2 292	4 668	56 065	543 865	285 134	825 512	24 563
333313	Office machinery mfg ..	-	3	3	302	8 083	226	455	4 877	45 095	36 106	81 483	D
333314	Optical instrument & lens mfg	-	8	4	f	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg	7	12	3	e	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg	2	41	24	2 282	72 830	1 301	2 664	29 494	220 760	167 605	383 392	5 048
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	52	29	6 495	232 194	3 954	7 568	115 975	383 293	580 653	969 036	27 254
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	52	29	6 495	232 194	3 954	7 568	115 975	383 293	580 653	969 036	27 254
333411	Air purification equipment mfg	-	10	6	726	21 681	624	1 266	17 456	93 848	47 534	140 744	3 727
333412	Industrial & commercial fan & blower mfg	4	4	2	163	5 620	73	183	2 261	10 075	7 909	18 260	297
333414	Heating equipment (except warm air furnaces) mfg	1	13	6	701	20 539	481	960	13 034	47 614	57 691	104 151	2 286
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	25	15	4 905	184 354	2 776	5 159	83 224	231 756	467 519	705 881	20 944
3335	Metalworking machinery mfg	1	450	137	11 487	468 151	8 546	18 008	311 419	837 724	469 334	1 340 984	65 993
33351	Metalworking machinery mfg	1	450	137	11 487	468 151	8 546	18 008	311 419	837 724	469 334	1 340 984	65 993
333511	Industrial mold mfg ...	-	129	42	2 993	130 613	2 464	5 164	99 259	225 666	80 119	304 266	22 331
333512	Machine tool (metal cutting types) mfg ...	-	23	18	1 707	72 703	1 013	2 072	34 738	135 247	113 349	258 673	4 534
333513	Machine tool (metal forming types) mfg ...	1	8	5	c	D	D	D	D	D	D	D	D
333514	Special die & tool, die set, jig, & fixture mfg ..	1	201	45	3 222	133 468	2 493	5 265	96 499	261 842	90 287	350 869	27 652
333515	Cutting tool & machine tool accessory mfg ..	-	68	18	2 291	74 956	1 806	4 099	53 626	130 136	89 701	225 676	8 122
333516	Rolling mill machinery & equipment mfg	-	3	2	c	D	D	D	D	D	D	D	D
333518	Other metalworking machinery mfg	1	18	7	959	42 424	581	1 003	19 292	56 384	77 468	154 628	2 287

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WISCONSIN—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3336	Engine, turbine, & power transmission equipment mfg	-	69	45	17 688	727 317	12 247	23 694	453 993	1 959 964	1 463 321	3 422 476	132 559
33361	Engine, turbine, & power transmission equipment mfg	-	69	45	17 688	727 317	12 247	23 694	453 993	1 959 964	1 463 321	3 422 476	132 559
333611	Turbine & turbine generator set unit mfg	-	3	3	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg	-	20	11	g	D	D	D	D	D	D	D	26 001
333613	Mechanical power transmission equipment mfg	-	22	14	2 438	99 967	1 794	3 549	69 192	275 084	167 000	439 037	D
333618	Other engine equipment mfg	-	24	17	11 623	478 528	8 399	16 480	314 232	1 374 651	1 009 039	2 378 274	80 438
3339	Other general-purpose machinery mfg	-	282	131	16 911	640 930	9 815	19 330	307 000	1 488 851	1 509 678	2 994 397	77 181
33391	Pump & compressor mfg	1	24	13	2 412	91 075	1 257	2 432	36 636	235 372	282 914	514 207	20 392
333911	Pump & pumping equipment mfg	-	16	8	1 494	59 056	856	1 745	25 871	140 281	190 966	327 656	D
333912	Air & gas compressor mfg	4	7	4	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	86	43	4 090	145 908	2 449	4 961	72 174	350 710	287 190	623 091	14 798
333922	Conveyor & conveying equipment mfg	-	33	15	1 573	51 746	915	1 905	24 853	130 767	77 454	208 896	3 904
333923	Overhead traveling crane, hoist, & monorail system mfg	-	20	12	1 434	60 452	791	1 695	29 420	134 448	102 876	222 529	4 882
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	-	29	14	993	31 600	676	1 259	16 605	79 978	102 614	181 746	5 919
33399	All other general-purpose machinery mfg	-	172	75	10 409	403 947	6 109	11 937	198 190	902 769	939 574	1 857 099	41 991
333991	Power-driven handtool mfg	-	5	2	359	15 659	317	644	11 674	49 025	55 036	103 728	701
333992	Welding & soldering equipment mfg	-	12	7	2 002	82 542	1 147	2 286	41 223	228 202	262 746	495 042	9 379
333993	Packaging machinery mfg	-	47	22	3 242	128 238	1 807	3 506	58 660	254 698	272 349	529 006	12 444
333994	Industrial process furnace & oven mfg	-	15	10	1 143	51 008	653	1 295	21 878	87 175	86 858	179 619	4 417
333995	Fluid power cylinder & actuator mfg	-	14	10	1 124	33 479	733	1 552	20 251	81 732	141 308	225 262	6 097
333996	Fluid power pump & motor mfg	-	7	3	772	28 534	391	778	13 953	38 821	26 670	65 897	3 700
333997	Scale & balance (except laboratory) mfg	-	4	2	127	2 916	94	118	1 574	7 392	6 499	14 086	162
333999	All other miscellaneous general-purpose machinery mfg	-	68	19	1 640	61 571	967	1 758	28 977	155 724	88 108	244 459	5 091
334	Computer & electronic product mfg	-	293	143	23 401	803 724	14 387	27 074	371 857	2 469 108	2 132 966	4 620 594	158 180
3341	Computer & peripheral equipment mfg	-	33	9	3 648	115 506	2 808	4 629	89 530	192 296	232 133	422 326	65 141
33411	Computer & peripheral equipment mfg	-	33	9	3 648	115 506	2 808	4 629	89 530	192 296	232 133	422 326	65 141
334111	Electronic computer mfg	-	11	4	2 418	92 362	1 795	2 145	71 451	76 517	200 062	271 585	D
334112	Computer storage device mfg	-	4	1	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	5	14	3	c	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	3	21	12	735	22 041	378	738	7 667	45 295	36 963	83 512	2 021
33421	Telephone apparatus mfg	4	5	4	300	8 650	133	225	2 576	16 389	19 675	37 810	D
334210	Telephone apparatus mfg	4	5	4	300	8 650	133	225	2 576	16 389	19 675	37 810	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	2	9	4	308	8 905	179	380	3 314	19 439	11 082	30 337	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	2	9	4	308	8 905	179	380	3 314	19 439	11 082	30 337	D
33429	Other communications equipment mfg	5	7	4	127	4 486	66	133	1 777	9 467	6 206	15 365	298
334290	Other communications equipment mfg	5	7	4	127	4 486	66	133	1 777	9 467	6 206	15 365	298

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WISCONSIN—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3343	Audio & video equipment mfg	6	6	4	516	9 798	307	445	4 263	16 908	23 727	39 880	985
33431	Audio & video equipment mfg	6	6	4	516	9 798	307	445	4 263	16 908	23 727	39 880	985
334310	Audio & video equipment mfg	6	6	4	516	9 798	307	445	4 263	16 908	23 727	39 880	985
3344	Semiconductor & other electronic component mfg	—	108	63	8 955	242 439	6 020	11 520	118 993	508 363	637 744	1 171 019	32 983
33441	Semiconductor & other electronic component mfg	—	108	63	8 955	242 439	6 020	11 520	118 993	508 363	637 744	1 171 019	32 983
334412	Bare printed circuit board mfg	1	19	7	599	21 037	433	924	9 816	32 099	19 992	52 048	2 394
334413	Semiconductor & related device mfg ...	2	9	4	606	19 913	396	816	10 705	41 857	34 230	75 475	2 108
334414	Electronic capacitor mfg	—	5	4	e	D	D	D	D	D	D	D	D
334415	Electronic resistor mfg	—	2	2	c	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg	—	11	6	584	14 499	433	890	7 508	26 379	20 536	46 461	1 282
334418	Printed circuit assembly (electronic assembly) mfg	—	17	15	3 620	90 737	2 499	4 815	49 455	202 713	361 552	563 421	13 231
334419	Other electronic component mfg	—	42	23	3 011	80 978	1 827	3 185	32 260	174 370	182 817	384 836	9 673
3345	Navigational, measuring, medical, & control instruments mfg	—	115	53	9 445	410 994	4 787	9 572	149 335	1 698 824	1 196 214	2 890 166	55 563
33451	Navigational, measuring, medical, & control instruments mfg	—	115	53	9 445	410 994	4 787	9 572	149 335	1 698 824	1 196 214	2 890 166	55 563
334510	Electromedical & electrotherapeutic apparatus mfg	—	19	13	3 265	161 683	1 114	2 318	34 025	671 765	373 723	1 054 487	15 512
334511	Search, detection, navigation, & guidance instrument mfg	—	6	3	e	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	1	15	7	962	29 785	709	1 296	17 176	43 469	54 467	100 089	8 608
334513	Industrial process control instrument mfg	—	21	6	1 048	35 810	639	1 189	16 741	76 221	65 378	145 959	3 919
334514	Totalizing fluid meter & counting device mfg .	—	4	3	560	27 083	287	602	8 840	66 295	52 922	117 502	D
334515	Electricity measuring & testing instrument mfg	4	12	3	264	9 005	112	211	2 372	22 243	11 518	33 650	1 284
334516	Analytical laboratory instrument mfg	—	13	5	791	36 421	249	568	7 670	95 748	53 030	147 492	4 053
334517	Irradiation apparatus mfg	—	8	7	g	D	D	D	D	D	D	D	14 899
334519	Other measuring & controlling device mfg	—	14	5	460	12 673	332	690	5 434	33 721	28 846	62 061	1 536
3346	Mfg & reproducing magnetic & optical media .	6	10	2	102	2 946	87	170	2 069	7 422	6 185	13 691	1 487
33461	Mfg & reproducing magnetic & optical media	6	10	2	102	2 946	87	170	2 069	7 422	6 185	13 691	1 487
335	Electrical equipment, appliance, & component mfg	—	216	123	33 276	1 088 057	24 087	45 262	634 368	3 677 101	3 438 103	7 102 853	176 008
3351	Electric lighting equipment mfg	—	22	13	1 703	51 235	983	1 887	20 875	128 060	130 670	259 760	6 512
33512	Lighting fixture mfg	—	22	13	1 703	51 235	983	1 887	20 875	128 060	130 670	259 760	6 512
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	—	9	7	457	14 769	259	529	7 048	50 835	25 830	76 764	1 859
335129	Other lighting equipment mfg	—	8	4	1 181	35 102	674	1 253	12 968	77 814	100 563	179 164	4 474
3352	Household appliance mfg..	—	13	9	4 744	149 886	3 355	6 776	86 191	737 649	481 340	1 220 000	27 682
33521	Small electrical appliance mfg	—	6	3	2 048	71 829	1 455	2 982	42 242	226 013	218 686	445 694	8 840
335211	Electric housewares & household fan mfg ...	—	6	3	2 048	71 829	1 455	2 982	42 242	226 013	218 686	445 694	8 840
33522	Major appliance mfg	—	7	6	2 696	78 057	1 900	3 794	43 949	511 636	262 654	774 306	18 842
335222	Household refrigerator & home freezer mfg..	—	2	2	f	D	D	D	D	D	D	D	D
335224	Household laundry equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	—	3	3	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WISCONSIN—Con. Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3353	Electrical equipment mfg ..	-	132	76	23 002	780 155	16 785	30 808	459 586	2 263 965	2 507 811	4 759 705	122 077
33531	Electrical equipment mfg	-	132	76	23 002	780 155	16 785	30 808	459 586	2 263 965	2 507 811	4 759 705	122 077
335311	Power, distribution, & specialty transformer mfg	-	17	13	h	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	43	31	7 547	221 301	5 800	11 211	136 201	564 666	762 311	1 336 995	33 300
335313	Switchgear & switchboard apparatus mfg	-	12	4	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	60	28	9 848	366 320	6 713	11 184	191 910	887 437	1 175 077	2 039 330	65 297
3359	Other electrical equipment & component mfg	-	49	25	3 827	106 781	2 964	5 791	67 716	547 427	318 282	863 388	19 737
33591	Battery mfg	-	9	6	g	D	D	D	D	D	D	D	D
335911	Storage battery mfg ...	-	3	1	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	-	6	5	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	1	1	c	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	c	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	10	5	1 010	26 787	758	1 574	15 891	116 802	80 292	195 122	9 717
335931	Current-carrying wiring device mfg	-	7	3	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	3	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	29	13	f	D	D	D	D	D	D	D	4 057
335991	Carbon & graphite product mfg	1	4	3	e	D	D	D	D	D	D	D	3 101
335999	All other miscellaneous electrical equipment & component mfg	-	25	10	574	15 813	412	780	6 912	34 606	46 360	78 851	956
336	Transportation equipment mfg	-	275	143	39 865	1 499 676	31 370	63 681	1 102 377	5 308 142	9 012 389	14 347 734	441 731
3361	Motor vehicle mfg	-	9	3	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	7	1	i	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	2	2	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	59	28	5 031	149 596	4 096	8 141	110 167	307 500	521 316	844 918	10 844
33621	Motor vehicle body & trailer mfg	-	59	28	5 031	149 596	4 096	8 141	110 167	307 500	521 316	844 918	10 844
336211	Motor vehicle body mfg	-	18	11	2 434	86 705	1 871	3 833	62 697	180 039	240 386	427 950	6 893
336212	Truck trailer mfg	-	19	6	1 963	46 526	1 727	3 388	37 129	91 986	226 223	325 667	1 797
336213	Motor home mfg	3	2	2	c	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	1	20	9	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	129	72	19 087	682 071	15 352	30 732	517 562	1 824 897	2 497 526	4 339 251	250 508
33631	Motor vehicle gasoline engine & engine parts mfg	-	24	8	4 534	227 243	3 740	7 638	178 192	338 910	529 672	870 184	121 152
336311	Carburetor, piston, piston ring, & valve mfg	-	5	3	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	19	5	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	22	8	2 284	88 741	1 656	3 296	62 374	461 216	393 146	851 905	16 879
336321	Vehicular lighting equipment mfg	-	2	1	c	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	20	7	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	6	3	g	D	D	D	D	D	D	D	3 403
336340	Motor vehicle brake system mfg	-	6	3	g	D	D	D	D	D	D	D	3 403
33635	Motor vehicle transmission & power train parts mfg	-	11	6	1 428	39 654	1 200	2 157	30 056	128 262	232 640	355 351	8 197
336350	Motor vehicle transmission & power train parts mfg	-	11	6	1 428	39 654	1 200	2 157	30 056	128 262	232 640	355 351	8 197

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WISCONSIN—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33636	Motor vehicle seating & interior trim mfg	—	9	6	1 766	52 737	1 450	3 209	41 524	144 070	252 088	396 209	D
336360	Motor vehicle seating & interior trim mfg ...	—	9	6	1 766	52 737	1 450	3 209	41 524	144 070	252 088	396 209	D
33637	Motor vehicle metal stamping	—	18	13	2 089	57 171	1 506	3 192	36 224	152 849	115 287	266 282	11 180
336370	Motor vehicle metal stamping	—	18	13	2 089	57 171	1 506	3 192	36 224	152 849	115 287	266 282	11 180
33639	Other motor vehicle parts mfg	—	38	28	5 805	188 486	4 882	9 598	153 722	539 869	940 535	1 505 481	87 145
336399	All other motor vehicle parts mfg	—	38	28	5 805	188 486	4 882	9 598	153 722	539 869	940 535	1 505 481	87 145
3364	Aerospace product & parts mfg	9	16	7	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	9	16	7	e	D	D	D	D	D	D	D	D
336411	Aircraft mfg	9	3	2	c	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	8	9	4	c	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	7	5	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	7	5	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	7	5	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	1	28	10	h	D	D	D	D	D	D	D	D
33661	Ship & boat building	1	28	10	h	D	D	D	D	D	D	D	D
336611	Ship building & repairing	1	10	4	g	D	D	D	D	D	D	D	D
336612	Boat building	—	18	6	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	27	18	5 026	212 563	3 064	6 365	121 105	505 790	785 228	1 298 818	47 586
33699	Other transportation equipment mfg	—	27	18	5 026	212 563	3 064	6 365	121 105	505 790	785 228	1 298 818	47 586
336991	Motorcycle, bicycle, & parts mfg	—	13	11	4 388	195 789	2 589	5 427	111 067	458 928	723 443	1 189 390	44 468
336999	All other transportation equipment mfg	3	13	7	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	504	131	17 305	487 075	13 076	27 382	285 494	999 369	991 184	1 977 738	48 143
3371	Household & institutional furniture & kitchen cabinet mfg	—	368	73	9 832	245 583	7 723	16 325	152 034	496 006	528 076	1 010 420	18 061
33711	Wood kitchen cabinet & counter top mfg	1	199	32	2 690	70 527	2 056	3 965	47 829	124 223	90 905	214 453	5 278
337110	Wood kitchen cabinet & counter top mfg ...	1	199	32	2 690	70 527	2 056	3 965	47 829	124 223	90 905	214 453	5 278
33712	Household & institutional furniture mfg	—	169	41	7 142	175 056	5 667	12 360	104 205	371 783	437 171	795 967	12 783
337121	Upholstered household furniture mfg	—	24	6	794	17 525	648	1 366	10 530	48 935	24 763	73 913	913
337122	Nonupholstered wood household furniture mfg	—	109	25	5 106	125 184	4 126	9 292	74 456	254 379	342 385	583 070	8 836
337124	Metal household furniture mfg	2	7	1	129	2 511	96	179	1 509	6 724	9 289	15 413	138
337127	Institutional furniture mfg	—	21	9	1 026	28 058	727	1 405	16 515	58 166	57 772	116 962	2 809
3372	Office furniture (including fixtures) mfg	2	111	48	5 380	175 678	3 720	7 861	89 379	379 317	277 257	657 294	21 991
33721	Office furniture (including fixtures) mfg	2	111	48	5 380	175 678	3 720	7 861	89 379	379 317	277 257	657 294	21 991
337211	Wood office furniture mfg	2	18	10	615	16 606	493	1 004	11 221	38 193	22 597	61 029	1 312
337212	Custom architectural woodwork & millwork mfg	—	31	10	553	16 243	414	863	10 108	36 151	23 116	59 349	1 172
337214	Office furniture (except wood) mfg	1	10	8	2 252	87 148	1 377	3 177	35 072	199 222	146 705	345 030	14 700
337215	Showcase, partition, shelving, & locker mfg	3	52	20	1 960	55 681	1 436	2 817	32 978	105 751	84 839	191 886	4 807
3379	Other furniture related product mfg	—	25	10	2 093	65 814	1 633	3 196	44 081	124 046	185 851	310 024	8 091
33791	Mattress mfg	—	16	5	f	D	D	D	D	D	D	D	D
337910	Mattress mfg	—	16	5	f	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	—	9	5	g	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	—	9	5	g	D	D	D	D	D	D	D	D

Table 1. Industry Statistics for the State: 1997—Con.

[Includes data for industry groups and industries with 100 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WISCONSIN—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	658	168	19 571	578 213	13 621	33 974	323 683	1 315 537	1 067 007	2 386 133	82 487
3391	Medical equipment & supplies mfg.....	1	233	44	6 472	212 537	4 302	8 364	114 394	398 397	272 864	686 912	22 052
33911	Medical equipment & supplies mfg.....	1	233	44	6 472	212 537	4 302	8 364	114 394	398 397	272 864	686 912	22 052
339111	Laboratory apparatus & furniture mfg.....	—	12	5	1 156	39 273	765	1 479	22 968	74 501	60 000	134 744	1 871
339112	Surgical & medical instrument mfg.....	—	34	14	2 349	92 872	1 430	2 996	44 494	120 919	126 386	262 361	14 534
339113	Surgical appliance & supplies mfg.....	1	34	12	1 438	40 677	972	1 780	21 908	99 099	61 756	160 748	3 004
339114	Dental equipment & supplies mfg.....	1	13	1	336	11 279	258	509	5 681	42 615	6 511	48 617	718
339116	Dental laboratories...	4	135	12	1 158	27 721	844	1 550	18 822	60 203	17 031	78 109	1 813
3399	Other miscellaneous mfg..	—	425	124	13 099	365 676	9 319	25 610	209 289	917 140	794 143	1 699 221	60 435
33991	Jewelry & silverware mfg.....	2	32	3	305	7 682	218	351	4 775	14 131	7 698	22 118	412
339914	Costume jewelry & novelty mfg.....	1	15	1	141	4 206	119	173	3 063	6 700	2 698	9 528	120
33992	Sporting & athletic goods mfg.....	—	97	29	2 465	61 094	1 854	3 323	36 109	203 309	184 748	381 091	10 004
339920	Sporting & athletic goods mfg.....	—	97	29	2 465	61 094	1 854	3 323	36 109	203 309	184 748	381 091	10 004
33993	Doll, toy, & game mfg...	4	21	6	238	5 387	193	349	3 385	15 210	9 439	25 162	1 121
339932	Game, toy, & children's vehicle mfg.....	4	17	6	234	5 357	189	343	3 362	15 139	9 400	25 048	1 121
33994	Office supplies (except paper) mfg.....	—	22	8	1 183	35 289	682	1 265	16 991	72 284	87 169	151 311	5 756
339941	Pen & mechanical pencil mfg.....	—	4	3	704	19 625	510	903	11 679	48 155	79 780	119 791	5 014
339943	Marking device mfg...	—	13	3	422	14 695	126	306	4 683	21 015	4 681	25 677	549
33995	Sign mfg.....	1	131	38	3 429	106 723	2 274	4 170	55 133	222 596	188 529	414 345	20 265
339950	Sign mfg.....	1	131	38	3 429	106 723	2 274	4 170	55 133	222 596	188 529	414 345	20 265
33999	All other miscellaneous mfg.....	—	122	40	5 479	149 501	4 098	16 152	92 896	389 610	316 560	705 194	22 877
339991	Gasket, packing, & sealing device mfg...	—	20	10	1 600	48 941	1 265	2 520	32 738	100 474	103 952	205 477	3 319
339992	Musical instrument mfg.....	3	15	3	462	12 228	387	910	8 946	27 468	13 618	41 940	D
339993	Fastener, button, needle, & pin mfg....	—	5	3	277	8 660	237	528	5 572	15 339	6 954	22 138	D
339994	Broom, brush, & mop mfg.....	1	13	8	1 164	31 464	831	1 574	20 019	93 846	75 185	167 381	5 287
339999	All other miscellaneous mfg.....	—	65	16	1 952	47 512	1 365	10 598	25 316	150 728	114 917	264 554	12 494

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.

²Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c—100 to 249 employees; e—250 to 499 employees; f—500 to 999 employees; g—1,000 to 2,499 employees; h—2,500 to 4,999 employees; i—5,000 to 9,999 employees; j—10,000 to 24,999 employees; k—25,000 to 49,999 employees; l—50,000 to 99,999 employees; m—100,000 employees or more.

Table 2. Industry Statistics for Metropolitan Areas: 1997

[Includes data for industry groups and industries with 250 employees or more. For definitions of CMSAs, MSAs, and PMSAs, information on geographic areas followed by *, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	APPLETON-OSHKOSH-NEENAH, WI MSA												
31-33	Manufacturing	-	683	324	54 679	1 918 138	40 023	82 394	1 264 864	5 681 077	6 695 931	12 360 905	439 719
311	Food mfg.....	-	67	36	6 347	167 933	4 982	9 469	118 850	560 960	1 026 574	1 595 896	37 042
3111	Animal food mfg.....	1	8	3	456	19 067	237	442	6 446	46 765	97 971	145 281	D
31111	Animal food mfg.....	1	8	3	456	19 067	237	442	6 446	46 765	97 971	145 281	D
311119	Other animal food mfg.....	1	8	3	456	19 067	237	442	6 446	46 765	97 971	145 281	D
3114	Fruit & vegetable preserving & specialty food mfg.....	-	11	9	2 775	56 491	2 338	3 952	40 502	205 028	283 562	489 628	16 216
31141	Frozen food mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	6	7	6	e	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	6	6	6	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	14	11	945	30 209	707	1 539	20 539	87 465	341 928	439 670	10 447
31151	Dairy product (except frozen) mfg.....	-	14	11	945	30 209	707	1 539	20 539	87 465	341 928	439 670	10 447
311513	Cheese mfg.....	-	11	9	842	26 262	637	1 372	18 202	76 401	302 849	387 168	9 812
3116	Meat product mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	5	3	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses.....	-	4	2	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	18	7	707	18 614	529	1 043	15 295	16 223	36 283	52 508	2 413
31181	Bread & bakery product mfg.....	2	17	6	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour.....	-	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills.....	-	7	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	6	3	f	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills.....	-	3	2	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills.....	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	35	14	1 465	39 275	1 181	2 543	29 081	73 993	138 359	213 685	8 935
3219	Other wood product mfg.....	-	30	13	1 254	32 902	1 031	2 245	25 446	66 344	100 672	168 135	7 048
32191	Millwork.....	-	9	4	850	24 391	714	1 614	19 442	45 516	73 131	119 875	5 450
321911	Wood window & door mfg.....	-	3	3	755	22 105	644	1 475	17 900	40 555	68 171	110 081	D
32192	Wood container & pallet mfg.....	2	15	8	335	7 097	281	557	4 953	15 274	22 773	38 046	1 365
321920	Wood container & pallet mfg.....	2	15	8	335	7 097	281	557	4 953	15 274	22 773	38 046	1 365
322	Paper mfg.....	-	70	54	13 130	563 301	10 064	21 600	400 409	2 170 848	2 226 051	4 388 472	172 776
3221	Pulp, paper, & paperboard mills.....	-	15	15	6 130	293 339	4 623	10 149	208 699	1 193 732	1 048 201	2 248 168	94 153
32212	Paper mills.....	-	12	12	5 943	285 984	4 475	9 864	203 028	1 160 161	1 010 617	2 177 366	92 042
322121	Paper (except newsprint) mills.....	-	12	12	5 943	285 984	4 475	9 864	203 028	1 160 161	1 010 617	2 177 366	92 042
3222	Converted paper product mfg.....	-	55	39	7 000	269 962	5 441	11 451	191 710	977 116	1 177 850	2 140 304	78 623
32221	Paperboard container mfg.....	-	13	11	1 280	53 332	962	1 935	33 000	114 843	168 245	283 190	9 624
322211	Corrugated & solid fiber box mfg.....	1	8	6	697	29 674	469	971	16 435	62 226	88 454	150 822	7 988
322212	Folding paperboard box mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, & similar products mfg.....	-	4	4	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg.....	-	8	8	2 081	79 043	1 606	3 465	58 561	366 323	515 887	875 129	12 433
322221	Coated & laminated packaging paper & plastics film mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg.....	-	5	5	1 501	56 686	1 181	2 516	43 577	304 140	415 309	713 854	D
322225	Laminated aluminum foil mfg for flexible packaging uses.....	-	1	1	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg.....	-	9	4	536	17 048	385	831	11 932	51 479	83 329	128 435	5 552
322233	Stationery, tablet, & related product mfg.....	-	5	3	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg.....	-	25	16	3 103	120 539	2 488	5 220	88 217	444 471	410 389	853 550	51 014
322291	Sanitary paper product mfg.....	-	9	6	2 110	90 693	1 671	3 442	68 066	371 852	320 833	690 289	45 003
322299	All other converted paper product mfg.....	-	16	10	993	29 846	817	1 778	20 151	72 619	89 556	163 261	6 011

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	APPLETON-OSHKOSH-NEENAH, WI MSA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	-	85	37	5 103	174 890	3 053	6 192	90 772	362 122	301 324	657 925	31 949
3231	Printing & related support activities.....	-	85	37	5 103	174 890	3 053	6 192	90 772	362 122	301 324	657 925	31 949
32311	Printing.....	-	74	28	4 451	149 723	2 586	5 181	74 253	314 655	281 816	591 175	26 729
323110	Commercial lithographic printing ..	-	34	14	2 460	77 055	1 380	2 575	35 771	158 976	83 915	241 007	9 641
323112	Commercial flexographic printing ..	-	7	4	491	18 875	277	647	8 560	37 057	39 049	75 815	2 970
323113	Commercial screen printing.....	3	10	3	420	16 083	219	420	6 431	26 319	33 827	59 994	1 252
323117	Book printing.....	-	3	3	f	D	D	D	D	D	D	D	D
32312	Support activities for printing.....	-	11	9	652	25 167	467	1 011	16 519	47 467	19 508	66 750	5 220
323122	Prepress services	-	8	7	571	23 375	400	879	15 107	43 764	18 682	62 215	5 073
325	Chemical mfg.....	2	21	4	278	10 525	157	314	5 386	47 806	41 465	88 936	1 980
326	Plastics & rubber products mfg.....	-	32	25	4 371	148 502	3 545	8 077	111 030	469 302	575 059	1 048 957	60 485
3261	Plastics product mfg.....	-	25	20	4 074	137 609	3 323	7 590	103 664	432 492	558 940	996 081	58 749
32611	Unsupported plastics film, sheet, & bag mfg..	-	13	13	3 301	119 804	2 632	6 125	88 259	356 677	498 288	860 020	51 024
326111	Unsupported plastics bag mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg.....	-	8	8	2 357	88 525	1 980	4 908	70 865	296 975	407 643	709 034	45 615
32619	Other plastics product mfg.....	-	8	6	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	-	8	6	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	4	7	5	297	10 893	222	487	7 366	36 810	16 119	52 876	1 736
32629	Other rubber product mfg.....	4	5	5	e	D	D	D	D	D	D	D	D
326299	All other rubber product mfg.....	4	5	5	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	-	24	6	344	11 550	278	574	8 514	34 709	35 022	70 064	2 974
3273	Cement & concrete product mfg.....	-	16	6	e	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	9	6	2 262	87 726	1 765	3 758	65 129	245 850	176 522	420 027	6 949
3315	Foundries.....	-	7	4	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	3	3	g	D	D	D	D	D	D	D	D
331511	Iron foundries.....	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	125	54	3 215	102 620	2 433	4 941	70 830	225 944	176 417	404 656	24 443
3323	Architectural & structural metals mfg.....	-	18	7	364	11 501	273	560	6 939	26 902	32 484	59 747	1 457
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	-	54	21	1 121	39 196	832	1 725	27 566	83 864	33 643	117 706	11 589
33271	Machine shops.....	-	49	18	1 012	35 955	744	1 549	25 167	78 785	30 157	109 359	10 219
332710	Machine shops.....	-	49	18	1 012	35 955	744	1 549	25 167	78 785	30 157	109 359	10 219
3328	Coating, engraving, heat treating, & allied activities.	1	13	4	293	6 977	222	441	4 025	14 953	3 717	18 673	790
33281	Coating, engraving, heat treating, & allied activities.....	1	13	4	293	6 977	222	441	4 025	14 953	3 717	18 673	790
3329	Other fabricated metal product mfg.....	-	23	11	696	24 424	538	1 130	17 780	47 480	37 409	85 668	3 278
33299	All other fabricated metal product mfg.....	-	23	11	696	24 424	538	1 130	17 780	47 480	37 409	85 668	3 278
332996	Fabricated pipe & pipe fitting mfg.....	-	4	3	266	8 895	185	364	6 128	16 675	14 651	31 871	675
332999	All other miscellaneous fabricated metal product mfg.....	1	10	5	255	6 527	202	403	4 596	15 593	18 861	34 873	458
333	Machinery mfg.....	-	74	39	7 799	283 969	5 084	9 998	158 348	777 564	769 137	1 546 636	37 787
3331	Agriculture, construction, & mining machinery mfg....	-	11	7	1 595	53 880	1 060	2 159	29 172	106 009	174 950	277 378	6 486
33311	Agricultural implement mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	4	4	3	e	D	D	D	D	D	D	D	2 062
333120	Construction machinery mfg.....	4	4	3	e	D	D	D	D	D	D	D	2 062

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31-33	APPLETON-OSHKOSH-NEENAH, WI MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3331	Agriculture, construction, & mining machinery mfg—Con.												
33313	Mining & oil & gas field machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	25	13	1 505	65 550	866	1 777	32 312	208 533	109 581	313 413	6 073
33329	Other industrial machinery mfg	-	22	12	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	16	10	1 218	55 138	684	1 374	26 870	179 352	95 875	272 932	4 634
3336	Engine, turbine, & power transmission equipment mfg	-	4	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	4	3	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	21	14	2 501	94 431	1 366	2 577	43 606	278 396	287 408	567 650	13 987
33391	Pump & compressor mfg	-	1	1	e	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	-	1	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	12	10	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	-	9	8	609	19 184	367	742	9 203	32 321	23 678	55 463	974
33399	All other general-purpose machinery mfg	-	8	3	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	-	3	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	13	4	h	D	D	D	D	D	D	D	8 482
3344	Semiconductor & other electronic component mfg	-	6	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	6	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	3	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	14	9	1 181	33 221	862	1 556	21 341	115 626	71 506	189 076	4 933
3353	Electrical equipment mfg ..	-	10	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	10	7	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	17	5	h	D	D	D	D	D	D	D	11 262
3361	Motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	4	2	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	4	2	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	-	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	8	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	28	10	919	22 688	738	1 515	14 423	62 965	41 813	101 832	2 046
3371	Household & institutional furniture & kitchen cabinet mfg	-	20	6	674	16 111	559	1 140	10 761	43 636	30 528	71 357	1 098
33712	Household & institutional furniture mfg	-	9	4	583	14 119	491	1 025	9 447	40 113	28 471	65 660	1 033
337122	Nonupholstered wood household furniture mfg	-	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	APPLETON-OSHKOSH-NEENAH, WI MSA—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg	3	36	11	857	22 102	693	1 299	16 187	48 509	22 510	71 182	1 249
3391	Medical equipment & supplies mfg	4	14	5	544	14 337	461	916	11 657	27 960	11 967	40 209	460
33911	Medical equipment & supplies mfg	4	14	5	544	14 337	461	916	11 657	27 960	11 967	40 209	460
339113	Surgical appliance & supplies mfg	4	3	3	410	10 281	337	716	8 130	17 494	10 081	27 698	D
3399	Other miscellaneous mfg . . .	3	22	6	313	7 765	232	383	4 530	20 549	10 543	30 973	789
	CHICAGO-GARY-KENOSHA, IL-IN-WI CMSA												
31-33	Manufacturing	1	14 080	5 205	660 689	24 785 382	457 284	943 383	14 112 493	72 622 192	73 308 763	145 631 728	6 094 310
	Chicago-Gary-Kenosha, IL-IN-WI CMSA (IL Part)	1	13 307	4 906	601 701	22 016 416	412 652	848 543	12 106 543	64 048 310	61 153 748	124 949 232	5 039 928
	Chicago-Gary-Kenosha, IL-IN-WI CMSA (IN Part)	—	569	217	49 462	2 372 725	37 307	79 659	1 724 496	7 692 325	11 002 978	18 651 480	907 596
	Chicago-Gary-Kenosha, IL-IN-WI CMSA (WI Part)	—	204	82	9 526	396 241	7 325	15 181	281 454	881 557	1 152 037	2 031 016	146 786
311	Food mfg	2	968	356	60 673	1 891 456	43 954	91 804	1 197 751	8 586 698	8 444 266	17 013 983	494 798
312	Beverage & tobacco product mfg	1	42	19	h	D	D	D	D	D	D	D	D
313	Textile mills	3	64	12	g	D	D	D	D	D	D	D	D
314	Textile product mills	3	223	50	h	D	D	D	D	D	D	D	D
315	Apparel mfg	2	219	63	i	D	D	D	D	D	D	D	D
316	Leather & allied product mfg . . .	1	40	15	g	D	D	D	D	D	D	D	D
321	Wood product mfg	2	253	67	h	D	D	D	D	D	D	D	D
322	Paper mfg	—	307	218	j	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	1 982	463	k	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	—	74	29	h	D	D	D	D	D	D	D	D
325	Chemical mfg	1	626	311	46 729	2 279 814	23 792	49 365	924 324	10 176 023	7 759 952	17 861 640	933 446
326	Plastics & rubber products mfg	1	794	455	k	D	D	D	D	D	D	D	378 704
327	Nonmetallic mineral product mfg	2	395	176	j	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	262	166	l	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	2 942	1 094	97 993	3 437 556	74 316	154 633	2 216 814	7 877 522	6 120 662	13 976 945	551 562
333	Machinery mfg	—	1 726	609	67 472	2 722 311	43 811	90 715	1 508 124	6 405 822	5 481 511	11 960 300	353 618
334	Computer & electronic product mfg	—	678	316	l	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	395	204	k	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	309	162	k	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	632	136	j	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	1 149	284	k	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CHICAGO-GARY-KENOSHA, IL-IN-WI CMSA—Con.												
	Kenosha, WI PMSA												
31-33	Manufacturing	—	204	82	9 526	396 241	7 325	15 181	281 454	881 557	1 152 037	2 031 016	146 786
311	Food mfg	—	17	9	738	18 193	514	1 144	11 021	64 219	220 449	283 949	6 491
3116	Meat product mfg	—	5	4	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	5	4	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	—	3	3	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	—	1	1	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	1	1	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	1	1	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	1	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	—	3	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	3	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg	2	6	4	390	15 965	255	561	8 698	104 636	60 531	156 971	2 440
3255	Paint, coating, & adhesive mfg	2	4	3	e	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	2	3	3	344	14 413	230	506	7 937	96 187	57 976	146 304	D
325510	Paint & coating mfg	2	3	3	344	14 413	230	506	7 937	96 187	57 976	146 304	D
326	Plastics & rubber products mfg	1	12	6	e	D	D	D	D	D	D	D	3 312
331	Primary metal mfg	—	6	4	732	27 915	532	1 151	17 004	59 328	78 653	140 856	2 862
3314	Nonferrous metal (except aluminum) production & processing	—	1	1	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying	—	1	1	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	47	20	1 881	64 039	1 461	2 592	43 718	157 427	84 287	246 340	6 870
3322	Cutlery & handtool mfg	—	1	1	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	—	1	1	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg	—	1	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	22	7	368	11 249	297	548	7 951	45 727	15 128	61 243	1 764
3329	Other fabricated metal product mfg	—	6	3	f	D	D	D	D	D	D	D	2 284
33291	Metal valve mfg	—	3	3	f	D	D	D	D	D	D	D	2 187
332919	Other metal valve & pipe fitting mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	30	8	645	19 989	468	757	11 575	43 063	31 974	74 769	1 443
3335	Metalworking machinery mfg	—	13	3	268	7 899	204	291	4 754	19 155	6 130	25 038	237
33351	Metalworking machinery mfg	—	13	3	268	7 899	204	291	4 754	19 155	6 130	25 038	237
334	Computer & electronic product mfg	—	12	7	859	25 104	674	1 405	14 716	54 081	59 205	112 314	5 805
3344	Semiconductor & other electronic component mfg	—	4	4	752	20 584	616	1 284	13 105	41 222	49 601	89 750	D
33441	Semiconductor & other electronic component mfg	—	4	4	752	20 584	616	1 284	13 105	41 222	49 601	89 750	D
334418	Printed circuit assembly (electronic assembly) mfg	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	5	4	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	—	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	12	3	316	10 227	213	463	5 455	13 192	18 209	31 247	617
339	Miscellaneous mfg	1	13	7	512	15 586	405	925	10 095	34 994	21 271	56 435	1 254
3399	Other miscellaneous mfg	1	7	5	404	12 024	336	790	8 380	28 268	15 780	44 633	1 079
33999	All other miscellaneous mfg	1	4	3	e	D	D	D	D	D	D	D	D
339992	Musical instrument mfg	2	3	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DULUTH-SUPERIOR, MN-WI MSA												
31-33	Manufacturing	1	284	71	6 989	201 235	5 067	9 658	127 852	590 225	778 230	1 379 544	152 109
	Duluth-Superior, MN-WI MSA (MN Part)	1	228	57	5 446	155 830	3 851	7 377	95 958	462 154	413 036	879 373	142 396
	Duluth-Superior, MN-WI MSA (WI Part)	-	56	14	1 543	45 405	1 216	2 281	31 894	128 071	365 194	500 171	9 713
311	Food mfg.	1	27	7	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.	-	3	1	e	D	D	D	D	D	D	D	D
31141	Frozen food mfg.	-	2	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.	-	2	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg.	1	25	7	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg.	-	5	3	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg.	-	5	3	e	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg.	-	2	2	e	D	D	D	D	D	D	D	D
322	Paper mfg.	-	5	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	2	2	e	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	e	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.	2	30	4	298	8 151	217	428	5 221	14 835	10 156	24 992	4 524
3231	Printing & related support activities.	2	30	4	298	8 151	217	428	5 221	14 835	10 156	24 992	4 524
32311	Printing	2	28	4	e	D	D	D	D	D	D	D	D
325	Chemical mfg.	2	11	6	274	10 414	152	317	5 681	40 389	36 070	76 320	2 612
326	Plastics & rubber products mfg.	2	13	3	275	6 862	216	425	4 777	24 603	10 872	36 537	D
327	Nonmetallic mineral product mfg.	4	19	5	263	8 233	205	391	6 083	25 394	19 558	45 421	D
331	Primary metal mfg.	-	7	4	411	14 251	327	691	10 397	42 849	53 500	97 862	D
3315	Foundries	-	5	3	e	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	4	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.	-	46	11	1 029	32 051	781	1 567	20 143	62 133	69 291	131 729	4 557
3329	Other fabricated metal product mfg.	-	6	2	338	10 922	268	489	7 378	22 052	36 214	58 507	1 253
33299	All other fabricated metal product mfg.	-	5	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg.	1	24	7	687	25 527	468	1 050	15 094	50 862	51 450	102 300	3 056
3331	Agriculture, construction, & mining machinery mfg.	-	5	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.	-	8	3	631	11 049	418	798	4 835	27 337	47 927	74 640	1 471
3344	Semiconductor & other electronic component mfg.	-	3	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.	-	3	3	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.	-	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.	2	27	1	312	5 387	227	268	3 244	19 048	13 087	32 342	1 529
3399	Other miscellaneous mfg.	1	15	1	279	4 440	203	238	2 825	16 392	12 075	28 640	1 445

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	EAU CLAIRE, WI MSA												
31-33	Manufacturing	-	219	76	10 624	314 605	8 042	15 087	216 360	810 134	829 071	1 641 106	105 016
311	Food mfg.....	-	23	7	937	27 214	681	1 281	16 694	87 501	237 852	324 683	9 787
3114	Fruit & vegetable preserving & specialty food mfg.....	-	5	4	399	11 964	292	622	7 716	52 187	55 943	108 326	2 728
31142	Fruit & vegetable canning, pickling, & drying.....	-	3	3	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	6	2	435	13 071	308	530	7 243	31 852	175 266	206 261	D
31151	Dairy product (except frozen) mfg.....	-	5	2	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg.	-	3	2	f	D	D	D	D	D	D	D	D
3162	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg.	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	12	5	399	9 119	347	638	5 915	17 082	32 421	48 910	1 441
322	Paper mfg.....	-	7	5	739	26 432	546	1 069	18 628	87 374	55 567	142 288	2 801
3221	Pulp, paper, & paperboard mills.....	-	2	2	e	D	D	D	D	D	D	D	D
32212	Paper mills.....	-	2	2	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills.....	-	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	17	10	1 189	37 650	963	2 066	27 945	133 403	109 835	244 772	10 132
3261	Plastics product mfg.....	-	16	9	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	-	10	4	507	14 107	395	798	10 450	46 327	32 403	80 478	4 948
326199	All other plastics product mfg.....	-	10	4	507	14 107	395	798	10 450	46 327	32 403	80 478	4 948
332	Fabricated metal product mfg.....	-	32	5	574	15 843	465	926	10 904	42 140	22 211	64 218	1 500
3323	Architectural & structural metals mfg.....	-	7	3	334	9 084	265	548	6 303	28 096	18 184	45 949	560
333	Machinery mfg.....	-	22	13	1 106	36 004	813	1 753	23 470	78 425	62 268	144 318	5 079
3335	Metalworking machinery mfg.....	-	8	2	336	14 015	265	597	9 889	36 375	10 597	48 101	1 340
33351	Metalworking machinery mfg.....	-	8	2	336	14 015	265	597	9 889	36 375	10 597	48 101	1 340
333514	Special die & tool, die set, jig, & fixture mfg.	-	6	2	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	7	6	328	10 351	195	415	5 227	13 138	29 960	44 771	1 398
334	Computer & electronic product mfg.....	-	12	5	3 213	99 999	2 592	4 416	78 737	150 582	146 056	297 251	D
3341	Computer & peripheral equipment mfg.....	-	3	2	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	3	2	h	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	17	6	516	12 952	374	629	6 385	29 091	18 684	48 331	2 422
3371	Household & institutional furniture & kitchen cabinet mfg.....	2	15	4	e	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg.....	1	10	3	360	7 424	267	440	4 144	19 453	9 476	29 378	D
339	Miscellaneous mfg.....	1	18	5	261	5 859	190	346	3 380	16 786	9 728	26 779	606

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GREEN BAY, WI MSA													
31-33	Manufacturing	1	396	168	25 825	1 015 651	18 473	38 396	602 579	2 588 409	3 885 894	6 457 440	224 977
311	Food mfg	2	47	20	4 985	127 841	3 909	8 549	97 167	444 244	1 439 824	1 881 094	35 948
3114	Fruit & vegetable preserving & specialty food mfg	8	6	4	778	19 778	610	1 453	13 801	56 852	84 086	141 027	D
31142	Fruit & vegetable canning, pickling, & drying	9	4	3	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	9	4	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	12	6	1 015	33 661	613	1 563	26 869	97 543	443 751	542 223	18 094
31151	Dairy product (except frozen) mfg	—	9	6	977	32 010	585	1 505	26 030	91 708	434 358	526 642	D
311513	Cheese mfg	—	7	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	2	9	6	2 585	60 555	2 169	4 505	47 843	252 907	884 246	1 134 024	5 965
31161	Animal slaughtering & processing	2	9	6	2 585	60 555	2 169	4 505	47 843	252 907	884 246	1 134 024	5 965
311611	Animal (except poultry) slaughtering	2	8	5	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	14	2	278	5 995	215	439	3 408	15 840	10 626	26 423	3 334
3119	Other food mfg	—	2	1	e	D	D	D	D	D	D	D	D
31199	All other food mfg	—	2	1	e	D	D	D	D	D	D	D	D
311991	Perishable prepared food mfg	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	2	23	10	508	11 500	371	704	7 268	26 485	43 032	69 084	990
3219	Other wood product mfg ...	4	17	7	e	D	D	D	D	D	D	D	601
322	Paper mfg	—	30	24	8 676	455 682	6 464	13 540	260 462	1 136 784	1 606 051	2 737 232	126 974
3221	Pulp, paper, & paperboard mills	—	8	8	5 508	325 060	3 979	8 362	164 774	631 129	571 237	1 189 890	D
32212	Paper mills	—	4	4	5 189	311 183	3 745	7 796	156 308	580 801	499 859	1 068 324	68 449
322121	Paper (except newsprint) mills	—	4	4	5 189	311 183	3 745	7 796	156 308	580 801	499 859	1 068 324	68 449
3222	Converted paper product mfg	—	22	16	3 168	130 622	2 485	5 178	95 688	505 655	1 034 814	1 547 342	D
32221	Paperboard container mfg	—	4	4	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	—	2	2	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	7	4	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	—	4	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	—	11	8	2 109	91 361	1 747	3 567	71 966	405 829	831 658	1 244 774	36 940
322291	Sanitary paper product mfg	—	7	6	2 003	88 448	1 664	3 432	70 509	394 065	824 938	1 226 800	35 710
323	Printing & related support activities	5	48	14	2 012	60 253	1 455	2 585	44 359	177 691	97 862	275 420	12 259
3231	Printing & related support activities	5	48	14	2 012	60 253	1 455	2 585	44 359	177 691	97 862	275 420	12 259
32311	Printing	5	43	13	1 962	58 587	1 419	2 519	43 157	173 826	96 265	269 942	D
323110	Commercial lithographic printing ..	—	19	7	817	16 595	519	796	10 160	31 490	21 881	53 195	1 889
323112	Commercial flexographic printing ..	7	4	3	852	35 662	691	1 312	28 973	128 749	63 167	191 921	9 283
326	Plastics & rubber products mfg	1	15	6	e	D	D	D	D	D	D	D	10 707
3261	Plastics product mfg	1	13	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	2	19	8	319	11 601	264	545	8 495	37 170	29 437	66 760	3 138
331	Primary metal mfg	—	4	3	300	10 983	222	461	6 141	27 148	60 303	87 016	802
332	Fabricated metal product mfg	—	70	27	1 719	61 710	1 296	2 687	40 604	130 194	91 738	220 382	7 092
3321	Forging & stamping	—	4	3	301	9 156	203	407	4 733	18 090	14 459	32 987	1 028
33211	Forging & stamping	—	4	3	301	9 156	203	407	4 733	18 090	14 459	32 987	1 028
3323	Architectural & structural metals mfg	—	14	7	371	13 024	298	664	9 723	30 126	18 512	48 292	1 713
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	33	8	f	D	D	D	D	D	D	D	2 443
33271	Machine shops	1	32	8	591	21 931	458	898	14 580	40 249	25 387	64 321	2 443
332710	Machine shops	1	32	8	591	21 931	458	898	14 580	40 249	25 387	64 321	2 443

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GREEN BAY, WI MSA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	-	57	27	3 337	149 428	1 914	3 782	76 674	307 262	252 838	557 995	15 685
3332	Industrial machinery mfg ..	-	26	15	2 300	110 568	1 228	2 402	54 991	226 455	171 968	392 918	11 092
33329	Other industrial machinery mfg	-	24	14	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	13	9	621	26 175	368	734	14 133	72 242	51 652	124 191	5 030
333293	Printing machinery & equipment mfg	-	5	3	1 458	75 947	730	1 410	36 709	136 033	107 507	237 891	D
3339	Other general-purpose machinery mfg	1	15	8	714	27 200	466	912	16 107	45 796	47 564	96 551	2 988
33399	All other general-purpose machinery mfg	1	14	7	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	1	6	5	601	23 538	378	742	13 465	38 552	42 337	83 982	2 558
336	Transportation equipment mfg	-	6	3	f	D	D	D	D	D	D	D	2 520
3366	Ship & boat building	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	21	9	1 596	63 463	918	2 130	23 257	104 635	58 946	163 267	4 922
3371	Household & institutional furniture & kitchen cabinet mfg	-	18	7	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	18	7	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	-	18	7	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	2	2	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	2	2	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	22	4	322	7 654	223	480	4 988	17 201	8 293	25 161	1 058
JANESVILLE-BELOIT, WI MSA													
31-33	Manufacturing	-	234	81	19 547	785 294	15 128	32 406	553 483	3 905 863	6 220 648	10 105 609	210 195
311	Food mfg	-	13	8	1 334	47 594	1 101	2 527	31 471	355 527	296 037	649 612	D
3119	Other food mfg	-	3	3	f	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	2	2	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	-	4	3	e	D	D	D	D	D	D	D	D
3132	Fabric mills	-	4	3	e	D	D	D	D	D	D	D	D
31324	Knit fabric mills	-	2	2	e	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills ..	-	2	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	14	7	433	19 979	219	448	9 104	101 297	122 100	223 395	10 027
326	Plastics & rubber products mfg	-	10	4	f	D	D	D	D	D	D	D	3 742
3261	Plastics product mfg	-	10	4	f	D	D	D	D	D	D	D	3 742
32619	Other plastics product mfg	-	6	2	f	D	D	D	D	D	D	D	884
326199	All other plastics product mfg	-	6	2	f	D	D	D	D	D	D	D	884
327	Nonmetallic mineral product mfg	1	11	5	e	D	D	D	D	D	D	D	1 664
331	Primary metal mfg	-	6	6	1 074	40 556	770	1 914	26 314	98 179	102 982	196 245	6 667
3312	Steel product mfg from purchased steel	-	2	2	e	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	e	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	e	D	D	D	D	D	D	D	D
3315	Foundries	-	4	4	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	2	2	e	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	e	D	D	D	D	D	D	D	D
331525	Copper foundries (except die-casting) ..	-	1	1	e	D	D	D	D	D	D	D	D

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31-33	JANESVILLE-BELOIT, WI MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	-	50	14	1 499	54 642	1 109	2 214	34 385	126 436	126 876	252 754	11 997
3323	Architectural & structural metals mfg	-	7	2	402	17 423	253	508	8 784	47 224	54 945	102 043	290
33231	Plate work & fabricated structural product mfg	-	1	1	e	D	D	D	D	D	D	D	D
332311	Prefabricated metal building & component mfg	-	1	1	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	11	3	e	D	D	D	D	D	D	D	1 061
33299	All other fabricated metal product mfg	-	11	3	e	D	D	D	D	D	D	D	1 061
332993	Ammunition (except small arms) mfg	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	29	13	3 123	139 642	1 850	3 491	70 136	235 879	338 331	577 317	20 537
3332	Industrial machinery mfg	-	7	3	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	5	2	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	9	4	584	29 424	350	660	13 696	27 928	50 424	100 004	2 293
33351	Metalworking machinery mfg	-	9	4	584	29 424	350	660	13 696	27 928	50 424	100 004	2 293
333518	Other metalworking machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg	-	1	1	e	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	13	6	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	-	6	4	2 215	65 064	1 837	4 034	47 798	193 971	264 653	455 091	9 647
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	4	744	24 940	572	1 256	16 451	80 870	60 282	141 063	2 618
3372	Office furniture (including fixtures) mfg	-	2	1	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	2	1	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	2	1	e	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	-	3	2	e	D	D	D	D	D	D	D	D
33791	Mattress mfg	-	3	2	e	D	D	D	D	D	D	D	D
337910	Mattress mfg	-	3	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	20	2	1 126	33 145	760	1 505	19 844	106 013	106 658	200 896	6 026
3399	Other miscellaneous mfg	-	10	2	g	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg	-	4	1	f	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg	-	4	1	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	2	1	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LA CROSSE, WI-MN MSA												
31-33	Manufacturing	-	184	62	10 668	324 155	7 568	15 121	189 153	528 541	900 097	1 432 797	52 876
	La Crosse, WI-MN MSA (MN Part)	-	23	6	497	10 459	338	693	6 452	28 870	21 356	50 147	3 062
	La Crosse, WI-MN MSA (WI Part)	-	161	56	10 171	313 696	7 230	14 428	182 701	499 671	878 741	1 382 650	49 814
311	Food mfg	-	13	4	354	8 735	283	537	6 282	32 499	119 048	150 169	6 372
312	Beverage & tobacco product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	3	2	f	D	D	D	D	D	D	D	D
31212	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	2	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg	-	3	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	14	6	943	19 317	711	1 272	11 471	39 253	56 259	95 663	2 385
3211	Sawmills & wood preservation	-	3	1	e	D	D	D	D	D	D	D	D
32111	Sawmills & wood preservation	-	3	1	e	D	D	D	D	D	D	D	D
321113	Sawmills	-	3	1	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg	-	9	4	412	9 830	324	733	6 354	21 603	25 998	45 458	1 405
32191	Millwork	-	3	3	299	7 717	266	605	5 163	17 118	21 598	36 749	D
323	Printing & related support activities	-	30	11	1 221	31 789	950	1 842	21 783	60 135	43 079	103 896	5 783
3231	Printing & related support activities	-	30	11	1 221	31 789	950	1 842	21 783	60 135	43 079	103 896	5 783
32311	Printing	-	25	11	1 189	30 995	926	1 801	21 207	58 401	42 676	101 762	5 673
323113	Commercial screen printing	-	9	6	764	18 507	584	1 155	12 406	33 561	17 451	50 748	2 725
332	Fabricated metal product mfg	-	25	12	1 449	41 622	1 198	2 541	30 295	109 480	106 122	215 002	7 006
3324	Boiler, tank, & shipping container mfg	-	3	2	e	D	D	D	D	D	D	D	D
33241	Power boiler & heat exchanger mfg	-	2	1	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	2	1	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	-	3	2	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities	-	3	2	f	D	D	D	D	D	D	D	D
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	20	8	3 076	121 241	1 591	3 154	48 904	42 587	308 309	355 519	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/industrial refrig equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	2	9	4	685	14 262	568	1 220	11 610	42 504	38 186	79 877	D
3363	Motor vehicle parts mfg	-	4	3	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	3	3	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	3	3	f	D	D	D	D	D	D	D	D

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	MADISON, WI MSA												
31-33	Manufacturing	-	564	187	26 568	864 440	18 841	37 854	507 789	2 484 947	2 334 302	4 840 470	132 277
311	Food mfg	-	53	24	4 748	145 792	3 803	7 992	113 367	664 195	780 156	1 446 065	20 506
3115	Dairy product mfg	-	6	5	560	16 958	350	720	9 824	68 006	296 955	362 221	2 770
31151	Dairy product (except frozen) mfg	-	4	3	e	D	D	D	D	D	D	D	D
311512	Creamery butter mfg ..	-	2	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	9	4	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	9	4	h	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	6	3	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	16	7	f	D	D	D	D	D	D	D	2 765
31181	Bread & bakery product mfg	-	14	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	9	5	687	16 299	344	569	10 065	63 493	24 025	87 902	1 741
321	Wood product mfg	2	29	9	570	14 732	430	869	9 260	32 007	38 950	71 840	2 749
3219	Other wood product mfg ...	2	25	8	e	D	D	D	D	D	D	D	2 690
322	Paper mfg	-	6	3	456	15 295	344	697	9 671	50 758	57 703	108 399	3 621
3222	Converted paper product mfg	-	6	3	456	15 295	344	697	9 671	50 758	57 703	108 399	3 621
323	Printing & related support activities	-	109	24	2 651	87 129	2 035	3 969	57 444	177 593	95 067	275 162	12 434
3231	Printing & related support activities	-	109	24	2 651	87 129	2 035	3 969	57 444	177 593	95 067	275 162	12 434
32311	Printing	-	91	20	2 329	73 919	1 783	3 498	48 666	153 660	89 032	245 468	10 506
323110	Commercial lithographic printing ..	-	40	7	869	26 182	641	1 232	16 049	52 098	28 117	81 159	4 870
323117	Book printing	-	7	4	832	30 193	683	1 345	21 702	51 331	36 851	89 664	1 311
32312	Support activities for printing	-	18	4	322	13 210	252	471	8 778	23 933	6 035	29 694	1 928
323122	Prepress services	-	14	4	296	12 612	231	432	8 316	22 991	5 865	28 581	1 898
325	Chemical mfg	-	28	14	1 189	40 843	686	1 366	17 553	147 653	98 574	243 090	13 578
3254	Pharmaceutical & medicine mfg	-	10	7	722	28 555	351	711	10 064	84 362	38 948	120 391	10 304
32541	Pharmaceutical & medicine mfg	-	10	7	722	28 555	351	711	10 064	84 362	38 948	120 391	10 304
325414	Biological product (except diagnostic) mfg	-	5	4	495	20 091	226	472	6 143	59 422	11 656	69 757	D
326	Plastics & rubber products mfg	2	36	16	2 566	81 520	1 971	3 968	51 209	225 683	168 143	392 752	17 569
3261	Plastics product mfg	2	31	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	25	12	2 015	60 152	1 507	3 006	34 206	171 710	118 553	289 113	14 219
326199	All other plastics product mfg	2	24	12	g	D	D	D	D	D	D	D	14 219
3262	Rubber product mfg	-	5	1	e	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg	-	1	1	e	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	23	7	617	18 388	476	1 015	12 185	37 102	32 308	69 298	3 386
3271	Clay product & refractory mfg	-	4	2	e	D	D	D	D	D	D	D	388
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	4	2	e	D	D	D	D	D	D	D	388
331	Primary metal mfg	-	6	3	719	24 710	591	1 188	17 704	49 012	34 126	83 394	D
3315	Foundries	-	5	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	69	20	1 711	53 769	1 188	2 450	31 740	118 803	123 095	245 029	8 784
3323	Architectural & structural metals mfg	-	23	9	755	25 246	527	1 108	14 831	54 164	64 474	118 416	2 596
33231	Plate work & fabricated structural product mfg ..	-	9	4	279	11 133	180	405	6 425	35 372	38 205	73 470	798
33232	Ornamental & architectural metal products mfg	-	14	5	476	14 113	347	703	8 406	18 792	26 269	44 946	1 798
332323	Ornamental & architectural metal work mfg	-	8	2	369	10 648	265	517	6 085	11 523	18 592	29 944	1 153
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	27	4	e	D	D	D	D	D	D	D	D
33271	Machine shops	1	23	4	293	8 819	224	418	5 635	19 968	8 853	29 057	3 671
332710	Machine shops	1	23	4	293	8 819	224	418	5 635	19 968	8 853	29 057	3 671

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31-33	MADISON, WI MSA— Con. Manufacturing— Con.												
333	Machinery mfg	-	38	21	2 161	67 488	1 340	2 446	31 954	181 242	183 548	359 166	9 728
3331	Agriculture, construction, & mining machinery mfg	1	6	2	e	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	1	5	2	e	D	D	D	D	D	D	D	2 694
333111	Farm machinery & equipment mfg	1	5	2	e	D	D	D	D	D	D	D	2 694
3332	Industrial machinery mfg	-	5	4	747	18 628	490	872	9 276	50 518	55 755	105 304	1 825
33329	Other industrial machinery mfg	-	5	4	747	18 628	490	872	9 276	50 518	55 755	105 304	1 825
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	5	441	16 535	224	388	6 089	52 259	55 639	103 083	2 707
33391	Pump & compressor mfg	-	3	3	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	35	17	2 028	91 986	616	1 241	15 627	267 125	138 647	407 564	9 607
3345	Navigational, measuring, medical, & control instruments mfg	-	20	12	1 537	72 798	393	797	10 057	220 717	110 854	332 386	7 210
33451	Navigational, measuring, medical, & control instruments mfg	-	20	12	1 537	72 798	393	797	10 057	220 717	110 854	332 386	7 210
334510	Electromedical & electrotherapeutic apparatus mfg	-	2	2	e	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	-	6	4	f	D	D	D	D	D	D	D	D
334517	Irradiation apparatus mfg	-	3	3	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	9	5	1 211	43 248	737	1 531	23 992	271 765	144 266	416 348	5 595
3351	Electric lighting equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	1	1	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg	-	2	2	e	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	2	2	e	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg	-	1	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	4	1	e	D	D	D	D	D	D	D	D
33591	Battery mfg	-	2	1	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	12	6	1 609	36 814	1 429	2 942	30 096	96 782	204 555	308 327	2 810
3362	Motor vehicle body & trailer mfg	-	6	2	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	6	2	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	-	5	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	38	9	2 283	61 305	1 813	3 187	42 203	72 737	144 027	215 596	5 446
3371	Household & institutional furniture & kitchen cabinet mfg	-	26	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	14	1	592	11 134	491	728	7 648	9 258	34 928	42 506	622
337122	Nonupholstered wood household furniture mfg	-	9	1	f	D	D	D	D	D	D	D	577
3372	Office furniture (including fixtures) mfg	5	10	4	434	10 255	322	492	6 359	17 189	11 828	30 148	1 013
33721	Office furniture (including fixtures) mfg	5	10	4	434	10 255	322	492	6 359	17 189	11 828	30 148	1 013
337215	Showcase, partition, shelving, & locker mfg	5	6	3	373	9 432	274	437	5 751	16 076	11 129	27 946	D
3379	Other furniture related product mfg	-	2	1	g	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	2	1	g	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	2	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	55	7	1 809	71 796	1 166	2 431	35 902	71 705	67 299	153 116	8 414
3391	Medical equipment & supplies mfg	-	26	4	1 492	63 750	955	2 053	31 929	55 211	56 157	125 319	D
33911	Medical equipment & supplies mfg	-	26	4	1 492	63 750	955	2 053	31 929	55 211	56 157	125 319	D
339112	Surgical & medical instrument mfg	-	5	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	3	29	3	317	8 046	211	378	3 973	16 494	11 142	27 797	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE-RACINE, WI CMSA												
31-33	Manufacturing	-	3 553	1 387	184 012	6 622 541	128 689	253 946	3 940 002	19 262 854	17 044 147	36 323 066	1 288 541
311	Food mfg	2	197	79	12 475	339 237	9 179	18 280	213 426	1 548 589	2 426 429	3 998 607	92 301
312	Beverage & tobacco product mfg	-	15	3	g	D	D	D	D	D	D	D	D
313	Textile mills	1	16	5	476	15 609	375	690	9 171	38 918	15 315	53 647	2 027
314	Textile product mills	2	39	7	f	D	D	D	D	D	D	D	2 900
315	Apparel mfg	-	28	15	g	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	31	17	h	D	D	D	D	D	D	D	D
321	Wood product mfg	1	63	12	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	56	40	4 254	159 640	3 025	6 468	94 508	370 866	434 485	805 776	40 698
323	Printing & related support activities	1	434	130	16 810	507 377	13 246	24 269	353 028	1 092 670	643 443	1 722 493	69 938
325	Chemical mfg	-	146	71	i	D	D	D	D	D	D	D	77 995
326	Plastics & rubber products mfg	1	145	81	8 268	246 089	6 274	12 657	152 879	610 557	487 044	1 093 995	61 232
327	Nonmetallic mineral product mfg	2	85	27	2 240	87 459	1 726	3 481	60 221	240 655	167 626	410 255	D
331	Primary metal mfg	-	94	66	10 985	375 697	8 764	18 777	267 947	958 919	812 515	1 768 065	70 892
332	Fabricated metal product mfg	-	877	322	31 749	1 090 282	23 679	47 103	695 866	2 519 874	1 780 287	4 283 752	195 357
333	Machinery mfg	-	585	244	35 409	1 485 388	22 334	45 875	833 209	3 528 527	2 858 772	6 379 976	254 677
334	Computer & electronic product mfg	-	132	62	i	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	122	70	20 222	736 012	14 182	25 792	415 200	2 227 693	2 212 141	4 427 304	125 891
336	Transportation equipment mfg	-	77	39	i	D	D	D	D	D	D	D	118 832
337	Furniture & related product mfg	2	154	20	g	D	D	D	D	D	D	D	7 186
339	Miscellaneous mfg	-	252	75	7 451	228 616	4 820	8 871	116 007	546 167	467 617	1 014 121	43 519
	Milwaukee-Waukesha, WI PMSA												
31-33	Manufacturing	-	3 174	1 246	165 143	5 958 444	115 244	227 576	3 546 969	16 025 978	15 054 976	31 093 528	1 095 973
311	Food mfg	2	181	72	11 443	313 165	8 327	16 680	197 100	1 237 727	2 230 890	3 492 932	82 625
3113	Sugar & confectionery product mfg	-	17	7	1 090	30 888	752	1 433	16 289	96 992	143 502	258 411	D
31132	Chocolate & confectionery mfg from cacao beans	-	3	3	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	-	3	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	6	1	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	6	1	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	12	8	1 242	34 640	1 007	2 147	23 176	228 835	160 666	389 461	13 211
31141	Frozen food mfg	1	4	4	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	3	3	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	1	8	4	e	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	3	6	3	263	5 983	223	437	4 525	15 918	18 210	34 424	2 538
3115	Dairy product mfg	-	11	8	1 044	36 643	702	1 544	22 080	157 520	432 828	588 797	6 802
31151	Dairy product (except frozen) mfg	-	10	8	g	D	D	D	D	D	D	D	6 802
311511	Fluid milk mfg	-	2	2	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	5	4	539	20 161	350	754	12 059	45 429	192 949	237 681	2 127

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MILWAUKEE-RACINE, WI CMSA—Con. Milwaukee-Waukesha, WI PMSA—Con. Manufacturing—Con.												
311	Food mfg—Con.												
3116	Meat product mfg.....	4	19	10	3 965	99 388	3 104	6 142	68 396	310 254	1 016 471	1 331 090	28 717
31161	Animal slaughtering & processing.....	4	19	10	3 965	99 388	3 104	6 142	68 396	310 254	1 016 471	1 331 090	28 717
311611	Animal (except poultry) slaughtering	9	6	3	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	2	12	6	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	—	84	21	2 296	48 431	1 467	2 851	30 224	175 310	106 925	282 379	4 182
31181	Bread & bakery product mfg.....	—	79	19	g	D	D	D	D	D	D	D	3 345
311811	Retail bakeries.....	3	56	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	22	14	1 586	34 622	1 042	2 108	22 566	142 719	70 411	213 194	2 694
3119	Other food mfg.....	—	31	15	1 528	51 760	1 094	2 106	29 521	232 361	261 082	491 573	19 902
31191	Snack food mfg.....	—	7	3	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg ..	—	6	2	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	—	10	5	661	24 268	492	907	14 454	78 155	137 797	214 486	7 408
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	—	4	2	367	12 733	291	491	7 890	43 596	79 698	123 295	D
311942	Spice & extract mfg... ..	—	6	3	294	11 535	201	416	6 564	34 559	58 099	91 191	D
31199	All other food mfg.....	1	11	6	426	12 785	318	643	8 400	67 451	36 757	104 296	7 319
311999	All other miscellaneous food mfg.....	2	5	3	268	9 192	183	410	6 065	59 014	28 378	87 617	D
312	Beverage & tobacco product mfg.....	—	14	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	—	14	3	g	D	D	D	D	D	D	D	D
31212	Breweries.....	—	8	2	f	D	D	D	D	D	D	D	D
312120	Breweries.....	—	8	2	f	D	D	D	D	D	D	D	D
313	Textile mills.....	1	16	5	476	15 609	375	690	9 171	38 918	15 315	53 647	2 027
3133	Textile & fabric finishing & fabric coating mills.....	1	7	3	e	D	D	D	D	D	D	D	D
31332	Fabric coating mills.....	—	3	2	263	9 842	199	371	5 897	28 185	8 866	36 559	D
313320	Fabric coating mills... ..	—	3	2	263	9 842	199	371	5 897	28 185	8 866	36 559	D
314	Textile product mills.....	2	35	7	579	13 780	449	845	8 137	28 539	30 184	58 475	2 859
3149	Other textile product mills..	2	20	5	373	9 164	276	522	5 033	20 349	21 185	41 383	D
31499	All other textile product mills	1	12	3	293	7 225	213	415	4 209	17 382	18 546	35 788	1 485
314999	All other miscellaneous textile product mills ..	1	11	3	e	D	D	D	D	D	D	D	D
315	Apparel mfg.....	—	25	12	769	16 909	535	996	8 419	33 251	24 119	56 614	898
3152	Cut & sew apparel mfg.....	—	14	7	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg.....	—	9	4	e	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg.....	—	9	4	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg ..	—	29	17	2 614	70 056	1 869	3 867	40 742	157 304	218 432	384 646	7 193
3161	Leather & hide tanning & finishing.....	—	11	11	1 333	35 984	1 105	2 263	25 422	87 451	160 291	257 960	D
31611	Leather & hide tanning & finishing.....	—	11	11	1 333	35 984	1 105	2 263	25 422	87 451	160 291	257 960	D
316110	Leather & hide tanning & finishing.....	—	11	11	1 333	35 984	1 105	2 263	25 422	87 451	160 291	257 960	D
3162	Footwear mfg.....	—	5	1	e	D	D	D	D	D	D	D	D
31621	Footwear mfg.....	—	5	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg ..	—	3	1	e	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg.....	—	13	5	f	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg.....	—	13	5	f	D	D	D	D	D	D	D	D
316993	Personal leather good (except women's handbag & purse) mfg.....	—	4	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	1	49	10	826	20 759	627	1 247	13 328	36 443	47 267	83 884	1 843
3219	Other wood product mfg... ..	2	42	9	612	14 139	440	863	8 190	21 024	33 239	54 348	1 054
32192	Wood container & pallet mfg.....	1	21	6	390	8 729	299	608	5 145	13 018	15 641	28 637	494
321920	Wood container & pallet mfg.....	1	21	6	390	8 729	299	608	5 145	13 018	15 641	28 637	494

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE-RACINE, WI CMSA—Con.												
	Milwaukee-Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
322	Paper mfg	—	50	36	3 810	139 648	2 734	5 801	84 120	322 531	376 470	699 690	35 530
3222	Converted paper product mfg	—	49	35	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	24	19	1 824	63 835	1 343	2 915	39 637	133 429	196 011	330 190	18 725
322211	Corrugated & solid fiber box mfg	—	17	14	1 469	51 162	1 069	2 293	31 199	105 939	169 871	274 915	13 420
322212	Folding paperboard box mfg	—	4	3	291	10 177	221	530	7 072	22 806	22 671	47 129	D
32222	Paper bag & coated & treated paper mfg	—	8	7	727	27 707	433	903	13 605	68 231	75 778	144 567	8 057
322222	Coated & laminated paper mfg	—	6	5	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	8	5	709	27 187	524	980	16 024	46 570	40 981	87 417	D
322232	Envelope mfg	—	3	3	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	1	9	4	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	405	123	15 928	483 259	12 577	22 996	337 679	1 047 046	613 841	1 649 284	67 459
3231	Printing & related support activities	1	405	123	15 928	483 259	12 577	22 996	337 679	1 047 046	613 841	1 649 284	67 459
32311	Printing	1	343	98	14 449	428 382	11 476	20 756	302 523	945 307	588 420	1 522 095	59 895
323110	Commercial lithographic printing ..	1	163	61	10 172	304 231	8 364	15 095	228 126	660 626	417 694	1 065 771	44 088
323112	Commercial flexographic printing ..	—	10	8	763	29 629	432	922	11 958	90 730	53 605	144 545	3 434
323113	Commercial screen printing	1	50	12	1 930	48 808	1 524	2 671	31 715	110 971	65 933	177 050	6 890
323114	Quick printing	1	75	7	623	14 637	400	693	9 041	27 631	14 637	42 178	1 695
323116	Manifold business form printing	3	7	5	401	15 298	317	683	12 054	29 408	16 985	46 878	746
32312	Support activities for printing	1	62	25	1 479	54 877	1 101	2 240	35 156	101 739	25 421	127 189	7 564
323121	Tradebinding & related work	—	15	7	429	13 351	356	751	9 310	25 149	7 792	33 210	968
323122	Prepress services	2	47	18	1 050	41 526	745	1 489	25 846	76 590	17 629	93 979	6 596
325	Chemical mfg	1	139	66	5 654	226 178	2 741	5 666	85 413	856 062	734 895	1 601 389	44 547
3251	Basic chemical mfg	—	20	10	1 398	51 334	588	1 157	18 612	163 977	85 513	246 696	D
32519	Other basic organic chemical mfg	—	7	4	1 044	38 087	373	718	12 372	117 801	32 757	136 546	10 100
325199	All other basic organic chemical mfg	—	7	4	1 044	38 087	373	718	12 372	117 801	32 757	136 546	10 100
3254	Pharmaceutical & medicine mfg	—	14	9	915	48 140	297	617	10 677	182 807	76 251	273 095	6 336
32541	Pharmaceutical & medicine mfg	—	14	9	915	48 140	297	617	10 677	182 807	76 251	273 095	6 336
325412	Pharmaceutical preparation mfg	—	3	2	f	D	D	D	D	D	D	D	2 278
325414	Biological product (except diagnostic) mfg	1	5	4	e	D	D	D	D	D	D	D	1 778
3255	Paint, coating, & adhesive mfg	—	29	12	1 418	59 814	680	1 502	23 247	254 676	249 077	503 106	13 532
32551	Paint & coating mfg	—	15	6	1 090	47 414	516	1 164	18 447	217 810	192 464	409 278	10 686
325510	Paint & coating mfg ..	—	15	6	1 090	47 414	516	1 164	18 447	217 810	192 464	409 278	10 686
32552	Adhesive mfg	4	14	6	328	12 400	164	338	4 800	36 866	56 613	93 828	2 846
325520	Adhesive mfg	4	14	6	328	12 400	164	338	4 800	36 866	56 613	93 828	2 846
3256	Soap, cleaning compound, & toilet preparation mfg ..	3	32	17	883	28 455	596	1 291	14 185	109 346	87 400	197 209	3 702
32561	Soap & cleaning compound mfg	4	27	13	675	24 302	425	905	12 235	98 124	79 591	179 245	3 263
325612	Polish & other sanitation good mfg ..	2	17	8	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	3	35	13	706	26 608	377	740	12 114	103 787	179 457	282 031	3 949
32591	Printing ink mfg	5	13	5	277	11 214	163	362	6 368	45 253	105 268	150 326	1 717
325910	Printing ink mfg	5	13	5	277	11 214	163	362	6 368	45 253	105 268	150 326	1 717
32599	All other chemical product & preparation mfg	1	22	8	429	15 394	214	378	5 746	58 534	74 189	131 705	2 232
325998	All other miscellaneous chemical product & preparation mfg	1	13	6	282	10 388	146	265	4 262	46 930	45 613	91 583	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE-RACINE, WI CMSA—Con.												
	Milwaukee-Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	1	129	69	7 274	215 058	5 504	11 110	131 487	534 561	432 658	963 795	57 099
3261	Plastics product mfg	1	122	64	6 703	197 626	5 048	10 231	120 518	494 185	412 679	902 954	55 508
32611	Unsupported plastics film, sheet, & bag mfg ..	1	16	8	908	33 050	660	1 264	20 125	78 062	88 233	164 676	6 426
326111	Unsupported plastics bag mfg	—	5	3	e	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	2	9	3	374	12 116	282	462	7 761	30 262	25 336	55 045	1 443
32619	Other plastics product mfg	—	91	51	5 419	155 171	4 109	8 496	94 662	393 104	301 971	692 414	45 591
326199	All other plastics product mfg	—	88	50	5 306	151 594	4 017	8 297	91 988	386 265	298 582	682 079	45 408
3262	Rubber product mfg	2	7	5	571	17 432	456	879	10 969	40 376	19 979	60 841	1 591
32629	Other rubber product mfg	2	6	5	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	—	4	3	363	11 207	284	612	6 671	23 948	11 495	35 894	D
327	Nonmetallic mineral product mfg	3	72	24	1 598	62 524	1 195	2 463	41 406	159 255	131 980	291 912	11 875
3272	Glass & glass product mfg .	—	15	2	331	12 753	289	530	10 279	33 296	21 363	54 634	1 016
32721	Glass & glass product mfg	—	15	2	331	12 753	289	530	10 279	33 296	21 363	54 634	1 016
327215	Glass product mfg made of purchased glass	—	12	2	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	4	36	17	931	39 354	660	1 466	24 586	100 659	89 874	191 222	9 302
32732	Ready-mix concrete mfg.	5	17	8	411	17 278	318	693	12 265	38 446	51 781	90 550	4 139
327320	Ready-mix concrete mfg	5	17	8	411	17 278	318	693	12 265	38 446	51 781	90 550	4 139
32733	Concrete pipe, brick, & block mfg	—	9	5	274	10 926	152	341	4 801	35 412	20 067	55 296	3 645
331	Primary metal mfg	—	79	57	9 364	323 301	7 517	15 713	232 255	839 753	691 874	1 529 378	57 997
3311	Iron & steel mills & ferroalloy mfg	—	4	2	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	4	2	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	1	10	2	e	D	D	D	D	D	D	D	D
3315	Foundries	—	59	48	8 378	283 415	6 819	14 182	207 243	619 712	406 495	1 023 372	48 751
33151	Ferrous metal foundries .	—	30	28	5 694	195 727	4 584	9 290	142 283	430 698	272 706	704 517	34 460
331511	Iron foundries	—	15	14	2 353	85 331	1 971	4 121	67 582	166 086	132 970	297 704	11 283
331512	Steel investment foundries	—	4	4	905	26 157	738	1 393	19 223	61 378	30 344	92 008	5 327
331513	Steel foundries (except investment)	—	11	10	2 436	84 239	1 875	3 776	55 478	203 234	109 392	314 805	17 850
33152	Nonferrous metal foundries	—	29	20	2 684	87 688	2 235	4 892	64 960	189 014	133 789	318 855	14 291
331521	Aluminum die-casting foundries	—	9	8	1 085	39 460	890	1 956	31 859	77 230	57 991	132 722	4 645
331524	Aluminum foundries (except die-casting) ..	—	9	5	925	27 663	767	1 654	18 583	57 315	47 943	104 701	6 665
331525	Copper foundries (except die-casting) ..	1	5	4	538	16 155	466	1 055	11 439	42 366	19 203	60 908	2 581
332	Fabricated metal product mfg	—	774	280	28 181	974 533	21 112	42 008	626 966	2 248 891	1 573 008	3 805 901	176 640
3321	Forging & stamping	—	75	45	4 975	183 054	3 654	6 878	120 135	412 545	346 268	751 932	37 537
33211	Forging & stamping	—	75	45	4 975	183 054	3 654	6 878	120 135	412 545	346 268	751 932	37 537
332111	Iron & steel forging ..	—	7	4	1 770	83 384	1 390	2 534	60 978	165 051	163 912	325 104	12 674
332116	Metal stamping	—	60	36	2 602	82 478	1 928	3 721	51 663	202 924	153 812	354 400	17 386
332117	Powder metallurgy part mfg	—	2	2	e	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	—	21	9	1 228	37 394	994	2 024	26 326	85 224	68 950	154 801	2 778
33221	Cutlery & handtool mfg ..	—	21	9	1 228	37 394	994	2 024	26 326	85 224	68 950	154 801	2 778
332212	Hand & edge tool mfg .	—	19	7	f	D	D	D	D	D	D	D	2 778
332214	Kitchen utensil, pot, & pan mfg	—	1	1	f	D	D	D	D	D	D	D	D

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	MILWAUKEE-RACINE, WI CMSA—Con.												
	Milwaukee-Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg	—	105	47	4 200	143 151	2 969	6 062	87 854	303 431	258 186	554 112	23 947
33231	Plate work & fabricated structural product mfg	—	53	21	1 739	56 307	1 318	2 637	35 868	131 286	135 155	259 102	6 330
332312	Fabricated structural metal mfg	—	28	9	723	25 218	518	1 021	14 518	57 370	76 670	126 982	2 392
332313	Plate work mfg	—	20	10	f	D	D	D	D	D	D	D	3 431
33232	Ornamental & architectural metal products mfg	—	52	26	2 461	86 844	1 651	3 425	51 986	172 145	123 031	295 010	17 617
332321	Metal window & door mfg	—	9	6	450	13 891	184	396	5 313	34 069	28 064	62 385	702
332322	Sheet metal work mfg	—	29	17	1 687	62 595	1 282	2 668	42 016	118 140	80 673	198 873	15 955
332323	Ornamental & architectural metal work mfg	2	14	3	324	10 358	185	361	4 657	19 936	14 294	33 752	960
3324	Boiler, tank, & shipping container mfg	—	24	14	1 191	42 791	905	1 998	30 626	106 281	138 431	245 693	7 578
33242	Metal tank (heavy gauge) mfg	—	6	6	455	14 678	348	741	10 438	34 384	26 436	59 963	2 163
332420	Metal tank (heavy gauge) mfg	—	6	6	455	14 678	348	741	10 438	34 384	26 436	59 963	2 163
33243	Metal can, box, & other metal container (light gauge) mfg	—	10	5	516	19 904	413	955	15 713	55 603	105 066	161 911	4 048
332431	Metal can mfg	—	3	3	e	D	D	D	D	D	D	D	D
3325	Hardware mfg	2	12	5	2 267	78 386	1 790	2 851	51 639	195 274	103 536	295 302	12 371
33251	Hardware mfg	2	12	5	2 267	78 386	1 790	2 851	51 639	195 274	103 536	295 302	12 371
332510	Hardware mfg	2	12	5	2 267	78 386	1 790	2 851	51 639	195 274	103 536	295 302	12 371
3326	Spring & wire product mfg	—	17	7	619	24 784	487	1 033	15 052	51 073	23 012	73 349	2 976
33261	Spring & wire product mfg	—	17	7	619	24 784	487	1 033	15 052	51 073	23 012	73 349	2 976
332612	Spring (light gauge) mfg	—	4	3	356	16 287	279	584	9 439	33 282	11 245	44 269	2 788
332618	Other fabricated wire product mfg	1	13	4	263	8 497	208	449	5 613	17 791	11 767	29 080	188
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	329	84	6 805	225 051	5 351	10 875	151 638	465 230	238 186	701 841	44 117
33271	Machine shops	1	271	61	4 865	159 729	3 800	7 570	107 688	332 066	159 297	491 028	28 688
332710	Machine shops	1	271	61	4 865	159 729	3 800	7 570	107 688	332 066	159 297	491 028	28 688
33272	Turned product & screw, nut, & bolt mfg	—	58	23	1 940	65 322	1 551	3 305	43 950	133 164	78 889	210 813	15 429
332721	Precision turned product mfg	—	51	22	1 793	60 253	1 431	3 060	40 208	120 521	59 612	179 088	14 210
3328	Coating, engraving, heat treating, & allied activities	3	109	34	2 590	75 455	2 020	4 192	49 899	195 541	96 736	291 699	16 504
33281	Coating, engraving, heat treating, & allied activities	3	109	34	2 590	75 455	2 020	4 192	49 899	195 541	96 736	291 699	16 504
332811	Metal heat treating	6	21	11	620	22 041	461	1 056	15 062	87 856	58 396	145 952	9 093
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	—	30	11	718	19 080	565	1 124	12 361	43 588	13 738	56 888	2 708
332813	Electroplating, plating, polishing, anodizing, & coloring	—	58	12	1 252	34 334	994	2 012	22 476	64 097	24 602	88 859	4 703
3329	Other fabricated metal product mfg	—	82	35	4 306	164 467	2 942	6 095	93 797	434 292	299 703	737 172	28 832
33291	Metal valve mfg	—	11	8	1 690	67 078	1 019	2 292	34 118	206 715	143 496	357 183	15 628
332911	Industrial valve mfg	—	4	4	746	31 220	457	1 022	16 512	100 547	48 583	155 857	D
332912	Fluid power valve & hose fitting mfg	—	6	3	f	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	—	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	71	27	2 616	97 389	1 923	3 803	59 679	227 577	156 207	379 989	13 204
332996	Fabricated pipe & pipe fitting mfg	—	11	5	355	11 428	256	518	6 559	31 551	18 363	49 531	D
332997	Industrial pattern mfg	—	24	4	e	D	D	D	D	D	D	D	1 226
332998	Enameled iron & metal sanitary ware mfg	—	1	1	e	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	28	13	1 140	36 071	859	1 745	23 317	87 876	95 292	181 652	7 509

Table 2. Industry Statistics for Metropolitan Areas: 1997—Con.

[Includes data for industry groups and industries with 250 employees or more. For definitions of CMSAs, MSAs, and PMSAs, information on geographic areas followed by *, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE—RACINE, WI CMSA—Con.												
	Milwaukee—Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	514	224	32 096	1 351 692	20 081	41 452	749 681	3 110 374	2 401 377	5 518 258	208 574
3331	Agriculture, construction, & mining machinery mfg	-	31	22	6 144	269 901	3 473	7 210	143 233	765 813	705 874	1 488 616	45 673
33311	Agricultural implement mfg	-	9	5	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	5	3	533	18 301	301	618	6 871	27 114	31 930	60 879	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	20	16	4 570	209 207	2 500	5 169	111 372	525 656	536 774	1 083 904	30 853
333120	Construction machinery mfg	-	20	16	4 570	209 207	2 500	5 169	111 372	525 656	536 774	1 083 904	30 853
3332	Industrial machinery mfg	-	69	24	2 101	83 458	1 393	2 997	45 625	194 689	181 617	369 386	10 387
33329	Other industrial machinery mfg	-	62	21	1 893	75 053	1 308	2 823	42 607	180 764	152 322	325 784	10 151
333291	Paper industry machinery mfg	-	11	6	537	26 844	301	627	12 039	60 705	46 480	102 972	1 779
333293	Printing machinery & equipment mfg	-	13	3	516	15 042	472	1 022	12 947	50 325	35 038	77 068	3 585
333298	All other industrial machinery mfg	1	31	10	566	21 505	345	659	10 407	44 172	52 120	104 333	3 717
3333	Commercial & service industry machinery mfg	4	26	13	1 459	48 446	733	1 450	16 135	130 252	86 248	211 012	4 584
33331	Commercial & service industry machinery mfg	4	26	13	1 459	48 446	733	1 450	16 135	130 252	86 248	211 012	4 584
333319	Other commercial & service industry machinery mfg	4	20	11	1 263	43 349	619	1 233	14 081	118 844	78 327	191 894	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	16	7	953	36 481	508	1 045	17 353	78 459	61 701	138 954	1 670
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	16	7	953	36 481	508	1 045	17 353	78 459	61 701	138 954	1 670
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	10	5	828	32 095	470	968	16 267	70 555	55 514	124 730	1 456
3335	Metalworking machinery mfg	1	225	82	5 951	257 588	4 483	9 692	178 869	486 161	225 921	716 120	44 184
33351	Metalworking machinery mfg	1	225	82	5 951	257 588	4 483	9 692	178 869	486 161	225 921	716 120	44 184
333511	Industrial mold mfg	-	68	25	1 934	92 441	1 571	3 570	70 870	156 953	55 697	211 151	16 327
333512	Machine tool (metal cutting types) mfg	1	12	9	497	21 239	338	746	11 601	45 565	33 973	81 052	1 971
333514	Special die & tool, die set, jig, & fixture mfg	1	101	30	2 011	85 012	1 545	3 281	62 317	167 379	59 611	225 908	19 664
333515	Cutting tool & machine tool accessory mfg	-	32	11	1 039	39 495	689	1 491	23 225	77 557	41 417	125 468	4 929
333518	Other metalworking machinery mfg	4	7	4	336	12 172	248	403	6 115	25 682	26 933	51 359	837
3336	Engine, turbine, & power transmission equipment mfg	-	37	24	9 369	397 134	6 021	12 065	227 527	891 238	615 837	1 515 137	80 071
33361	Engine, turbine, & power transmission equipment mfg	-	37	24	9 369	397 134	6 021	12 065	227 527	891 238	615 837	1 515 137	80 071
333611	Turbine & turbine generator set unit mfg	-	1	1	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg	-	11	7	1 704	74 389	1 084	1 922	40 982	179 564	83 425	261 383	23 012
333613	Mechanical power transmission equipment mfg	-	13	8	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	12	8	5 241	223 392	3 592	7 454	138 712	514 970	297 288	813 839	38 095
3339	Other general-purpose machinery mfg	-	110	52	6 119	258 684	3 470	6 993	120 939	563 762	524 179	1 079 033	22 005
33392	Material handling equipment mfg	-	31	13	1 645	71 490	892	1 834	31 569	189 999	163 076	339 984	5 687
333922	Conveyor & conveying equipment mfg	-	10	3	434	17 830	251	517	7 251	51 262	34 427	87 274	1 997
333923	Overhead traveling crane, hoist, & monorail system mfg	-	12	8	1 036	47 219	528	1 092	21 279	108 581	85 261	179 392	3 069

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	MILWAUKEE-RACINE, WI CMSA—Con.												
	Milwaukee-Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg—Con.												
33399	All other general-purpose machinery mfg	-	70	36	4 298	181 674	2 474	4 982	86 835	367 313	347 982	718 792	15 538
333991	Power-driven handtool mfg	-	3	1	e	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	2	8	6	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	-	16	8	1 260	51 823	684	1 274	22 978	99 553	128 861	226 401	5 652
333994	Industrial process furnace & oven mfg ..	-	10	6	636	29 784	343	766	12 698	47 003	50 829	101 278	D
333995	Fluid power cylinder & actuator mfg	-	7	6	e	D	D	D	D	D	D	D	1 398
333996	Fluid power pump & motor mfg	-	3	2	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	-	21	7	525	27 797	245	424	9 619	74 598	38 409	112 304	765
334	Computer & electronic product mfg	-	125	60	8 803	373 522	4 951	9 596	155 879	1 533 852	1 152 266	2 673 291	49 335
3341	Computer & peripheral equipment mfg	1	11	4	263	13 467	188	241	10 097	34 512	77 883	109 461	D
33411	Computer & peripheral equipment mfg	1	11	4	263	13 467	188	241	10 097	34 512	77 883	109 461	D
3344	Semiconductor & other electronic component mfg	1	46	26	2 530	80 526	1 641	3 204	35 420	152 325	117 240	268 985	D
33441	Semiconductor & other electronic component mfg	1	46	26	2 530	80 526	1 641	3 204	35 420	152 325	117 240	268 985	D
334412	Bare printed circuit board mfg	-	6	3	297	13 789	214	430	5 302	19 424	12 058	31 308	1 136
334413	Semiconductor & related device mfg ...	-	4	2	e	D	D	D	D	D	D	D	1 504
334416	Electronic coil, transformer, & other inductor mfg	-	6	3	306	8 396	216	441	3 998	15 613	12 945	28 181	1 050
334418	Printed circuit assembly (electronic assembly) mfg	5	8	7	504	11 950	289	546	4 707	28 640	25 509	53 852	1 489
334419	Other electronic component mfg	-	16	7	692	22 744	439	789	8 744	45 411	35 315	81 867	2 759
3345	Navigational, measuring, medical, & control instruments mfg	-	51	25	5 747	271 397	2 967	5 849	106 741	1 328 391	940 342	2 258 949	35 700
33451	Navigational, measuring, medical, & control instruments mfg	-	51	25	5 747	271 397	2 967	5 849	106 741	1 328 391	940 342	2 258 949	35 700
334510	Electromedical & electrotherapeutic apparatus mfg	-	12	7	2 461	129 970	755	1 535	26 061	596 139	318 269	922 390	14 243
334512	Automatic environmental control mfg	2	5	3	411	14 335	300	537	8 258	13 036	18 148	32 182	D
334513	Industrial process control instrument mfg	-	11	4	504	16 705	274	427	6 063	29 664	23 284	54 158	1 798
334514	Totalizing fluid meter & counting device mfg .	-	3	2	f	D	D	D	D	D	D	D	D
334517	Irradiation apparatus mfg	-	4	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	99	60	17 512	646 919	12 220	22 317	368 007	1 749 906	2 014 879	3 749 957	108 713
3351	Electric lighting equipment mfg	-	9	6	634	18 257	409	806	9 554	66 792	50 764	118 163	1 768
33512	Lighting fixture mfg	-	9	6	634	18 257	409	806	9 554	66 792	50 764	118 163	1 768
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	5	4	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	-	3	1	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	4	3	2 084	73 108	1 505	3 110	43 275	230 146	222 148	453 300	8 142
33521	Small electrical appliance mfg	-	2	2	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg...	-	2	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE—RACINE, WI CMSA—Con.												
	Milwaukee—Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3353	Electrical equipment mfg ..	-	57	36	12 858	499 367	8 898	15 506	284 020	1 272 560	1 595 876	2 855 795	85 236
33531	Electrical equipment mfg	-	57	36	12 858	499 367	8 898	15 506	284 020	1 272 560	1 595 876	2 855 795	85 236
335311	Power, distribution, & specialty transformer mfg	-	8	5	g	D	D	D	D	D	D	D	13 213
335312	Motor & generator mfg	-	12	10	2 383	80 560	1 574	3 140	41 449	223 844	252 876	482 441	D
335313	Switchgear & switchboard apparatus mfg	-	6	3	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	31	18	7 561	285 190	5 357	8 005	155 544	692 661	974 925	1 648 723	55 116
3359	Other electrical equipment & component mfg	-	29	15	1 936	56 187	1 408	2 895	31 158	180 408	146 091	322 699	13 567
33591	Battery mfg	-	3	1	e	D	D	D	D	D	D	D	D
335911	Storage battery mfg	-	2	1	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	7	3	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	5	2	e	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	2	1	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	1	18	10	825	24 353	598	1 203	13 040	50 811	47 127	97 216	3 691
335991	Carbon & graphite product mfg	-	3	3	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	1	15	7	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	68	33	8 643	380 963	5 946	11 894	261 303	1 169 087	1 562 448	2 753 636	118 312
3362	Motor vehicle body & trailer mfg	3	8	3	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	3	8	3	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	43	23	i	D	D	D	D	D	D	D	77 627
33632	Motor vehicle electrical & electronic equipment mfg	-	11	3	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	10	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	6	4	267	10 790	193	475	6 015	27 695	25 243	52 894	D
336370	Motor vehicle metal stamping	-	6	4	267	10 790	193	475	6 015	27 695	25 243	52 894	D
33639	Other motor vehicle parts mfg	-	14	10	2 909	119 924	2 220	4 138	95 870	314 923	732 320	1 076 000	59 165
336399	All other motor vehicle parts mfg	-	14	10	2 909	119 924	2 220	4 138	95 870	314 923	732 320	1 076 000	59 165
3365	Railroad rolling stock mfg ..	-	4	3	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	4	3	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	4	3	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	4	3	h	D	D	D	D	D	D	D	37 864
33699	Other transportation equipment mfg	-	4	3	h	D	D	D	D	D	D	D	37 864
336991	Motorcycle, bicycle, & parts mfg	-	3	3	2 711	143 875	1 432	3 249	83 983	372 178	387 780	752 066	D
337	Furniture & related product mfg	2	136	19	1 696	52 366	1 294	2 519	34 349	99 323	74 025	173 893	6 852
3371	Household & institutional furniture & kitchen cabinet mfg	2	99	9	922	27 565	715	1 418	18 971	47 211	36 230	84 035	D
33711	Wood kitchen cabinet & counter top mfg	2	61	5	548	16 561	418	832	11 694	26 439	22 060	48 767	1 607
337110	Wood kitchen cabinet & counter top mfg ...	2	61	5	548	16 561	418	832	11 694	26 439	22 060	48 767	1 607
33712	Household & institutional furniture mfg	2	38	4	374	11 004	297	586	7 277	20 772	14 170	35 268	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE-RACINE, WI CMSA—Con.												
	Milwaukee-Waukesha, WI PMSA—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	1	33	9	723	23 718	535	1 033	14 665	49 870	35 743	85 497	4 430
33721	Office furniture (including fixtures) mfg	1	33	9	723	23 718	535	1 033	14 665	49 870	35 743	85 497	4 430
337214	Office furniture (except wood) mfg	—	3	2	285	7 983	228	438	5 762	18 582	10 130	28 268	D
337215	Showcase, partition, shelving, & locker mfg	2	17	3	257	9 995	182	366	5 660	17 117	17 459	34 939	864
339	Miscellaneous mfg.....	—	230	67	6 708	206 823	4 337	7 975	106 280	503 835	434 901	939 819	36 239
3391	Medical equipment & supplies mfg	1	80	16	1 482	46 698	823	1 391	19 253	112 755	68 603	182 426	5 701
33911	Medical equipment & supplies mfg	1	80	16	1 482	46 698	823	1 391	19 253	112 755	68 603	182 426	5 701
339112	Surgical & medical instrument mfg	1	16	7	451	16 507	220	423	5 428	37 503	21 795	59 995	2 965
339113	Surgical appliance & supplies mfg	—	11	4	625	20 645	329	475	7 946	54 316	38 786	93 222	2 165
339116	Dental laboratories ..	5	44	4	318	7 681	216	391	4 865	17 192	6 058	23 490	408
3399	Other miscellaneous mfg ..	—	150	51	5 226	160 125	3 514	6 584	87 027	391 080	366 298	757 393	30 538
33992	Sporting & athletic goods mfg	1	28	7	573	15 312	398	724	8 125	67 384	75 875	142 400	5 521
339920	Sporting & athletic goods mfg	1	28	7	573	15 312	398	724	8 125	67 384	75 875	142 400	5 521
33994	Office supplies (except paper) mfg	—	9	4	482	14 975	208	355	4 513	24 559	10 294	34 511	D
339943	Marking device mfg ...	—	5	1	e	D	D	D	D	D	D	D	51
33995	Sign mfg	—	59	19	2 048	71 426	1 318	2 431	35 717	146 230	140 544	289 679	16 667
339950	Sign mfg	—	59	19	2 048	71 426	1 318	2 431	35 717	146 230	140 544	289 679	16 667
33999	All other miscellaneous mfg	—	35	17	1 929	53 826	1 445	2 813	36 021	143 565	131 011	272 249	6 794
339991	Gasket, packing, & sealing device mfg ...	—	12	6	674	19 388	547	1 061	13 810	38 242	47 542	85 581	1 460
339994	Broom, brush, & mop mfg	1	6	6	997	27 416	718	1 378	18 152	84 424	66 305	149 240	4 568
339999	All other miscellaneous mfg	—	12	5	251	6 908	174	364	3 969	20 569	16 975	36 905	742
	Racine, WI PMSA												
31-33	Manufacturing	—	379	141	18 869	664 097	13 445	26 370	393 033	3 236 876	1 989 171	5 229 538	192 568
311	Food mfg	—	16	7	1 032	26 072	852	1 600	16 326	310 862	195 539	505 675	9 676
3113	Sugar & confectionery product mfg	—	3	1	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	—	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	—	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	—	3	3	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	3	3	e	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	3	3	e	D	D	D	D	D	D	D	D
322	Paper mfg	1	6	4	444	19 992	291	667	10 388	48 335	58 015	106 086	5 168
3222	Converted paper product mfg	1	6	4	444	19 992	291	667	10 388	48 335	58 015	106 086	5 168
32221	Paperboard container mfg	1	5	3	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	1	5	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	29	7	882	24 118	669	1 273	15 349	45 624	29 602	73 209	2 479
3231	Printing & related support activities	—	29	7	882	24 118	669	1 273	15 349	45 624	29 602	73 209	2 479
32311	Printing	—	28	7	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	14	5	475	12 685	368	623	8 426	23 685	14 593	37 744	1 347
323113	Commercial screen printing	—	6	2	349	10 260	257	592	6 162	19 657	13 757	31 922	848
325	Chemical mfg	—	7	5	g	D	D	D	D	D	D	D	33 448
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	3	3	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	—	3	3	g	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg ..	—	2	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MILWAUKEE-RACINE, WI CMSA—Con.												
	Racine, WI PMSA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	1	16	12	994	31 031	770	1 547	21 392	75 996	54 386	130 200	4 133
3261	Plastics product mfg	1	11	7	368	10 139	297	565	6 420	27 870	14 881	42 628	1 569
32619	Other plastics product mfg	—	8	6	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	8	6	e	D	D	D	D	D	D	D	D
3262	Rubber product mfg	2	5	5	626	20 892	473	982	14 972	48 126	39 505	87 572	2 564
32629	Other rubber product mfg	2	5	5	626	20 892	473	982	14 972	48 126	39 505	87 572	2 564
326291	Rubber product mfg for mechanical use	3	3	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	13	3	642	24 935	531	1 018	18 815	81 400	35 646	118 343	D
3272	Glass & glass product mfg	—	1	1	e	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	1	1	e	D	D	D	D	D	D	D	D
327213	Glass container mfg	—	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	—	9	2	e	D	D	D	D	D	D	D	2 891
331	Primary metal mfg	4	15	9	1 621	52 396	1 247	3 064	35 692	119 166	120 641	238 687	12 895
3315	Foundries	5	12	7	1 545	48 533	1 188	2 935	33 366	105 042	74 080	179 387	11 241
33151	Ferrous metal foundries	—	3	2	421	13 746	337	652	10 206	29 111	18 819	47 584	D
33152	Nonferrous metal foundries	7	9	5	1 124	34 787	851	2 283	23 160	75 931	55 261	131 803	D
331521	Aluminum die-casting foundries	8	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	103	42	3 568	115 749	2 567	5 095	68 900	270 983	207 279	477 851	18 717
3321	Forging & stamping	—	10	7	507	19 177	351	689	11 004	50 189	46 152	95 450	3 180
33211	Forging & stamping	—	10	7	507	19 177	351	689	11 004	50 189	46 152	95 450	3 180
332111	Iron & steel forging	—	1	1	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	—	3	3	368	12 558	293	601	9 449	25 818	42 032	67 528	D
33241	Power boiler & heat exchanger mfg	—	1	1	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	—	1	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	48	16	1 379	40 085	1 056	2 142	25 914	93 473	53 440	145 282	7 226
33271	Machine shops	—	37	12	1 104	32 115	823	1 697	20 633	75 574	47 512	121 310	4 797
332710	Machine shops	—	37	12	1 104	32 115	823	1 697	20 633	75 574	47 512	121 310	4 797
33272	Turned product & screw, nut, & bolt mfg	2	11	4	275	7 970	233	445	5 281	17 899	5 928	23 972	2 429
332721	Precision turned product mfg	2	9	4	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	1	17	6	367	10 272	255	501	5 870	24 141	5 507	29 658	1 297
33281	Coating, engraving, heat treating, & allied activities	1	17	6	367	10 272	255	501	5 870	24 141	5 507	29 658	1 297
3329	Other fabricated metal product mfg	—	11	6	608	22 940	368	752	11 447	53 872	46 867	103 634	4 267
33291	Metal valve mfg	—	3	3	375	14 347	204	431	5 658	36 536	39 597	78 519	3 050
332912	Fluid power valve & hose fitting mfg	1	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	71	20	3 313	133 696	2 253	4 423	83 528	418 153	457 395	861 718	46 103
3331	Agriculture, construction, & mining machinery mfg	—	11	6	1 279	48 481	872	1 755	28 807	230 281	324 859	543 893	D
33311	Agricultural implement mfg	—	5	4	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	—	2	2	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	39	5	456	18 317	324	667	11 682	31 621	11 319	42 474	3 780
33351	Metalworking machinery mfg	1	39	5	456	18 317	324	667	11 682	31 621	11 319	42 474	3 780
3336	Engine, turbine, & power transmission equipment mfg	—	5	3	1 025	48 742	715	1 299	32 302	126 059	86 520	209 491	4 707
33361	Engine, turbine, & power transmission equipment mfg	—	5	3	1 025	48 742	715	1 299	32 302	126 059	86 520	209 491	4 707
333612	Speed changer, industrial high-speed drive, & gear mfg	—	1	1	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg	—	4	2	f	D	D	D	D	D	D	D	D

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	MILWAUKEE-RACINE, WI CMSA—Con.												
	Racine, WI PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	-	11	4	481	16 436	299	617	9 871	26 737	29 054	56 758	D
33399	All other general-purpose machinery mfg	-	7	3	423	14 161	262	538	8 561	22 020	23 802	46 919	D
333996	Fluid power pump & motor mfg	-	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	23	10	2 710	89 093	1 962	3 475	47 193	477 787	197 262	677 347	17 178
3351	Electric lighting equipment mfg	-	2	2	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	2	2	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	2	20	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	2	20	7	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	10	6	939	29 240	783	1 648	21 988	67 528	68 400	137 384	4 376
335314	Relay & industrial control mfg	9	9	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	2	9	6	e	D	D	D	D	D	D	D	520
339	Miscellaneous mfg	-	22	8	743	21 793	483	896	9 727	42 332	32 716	74 302	7 280
3391	Medical equipment & supplies mfg	1	11	4	415	12 806	258	435	5 276	23 586	8 399	32 156	D
33911	Medical equipment & supplies mfg	1	11	4	415	12 806	258	435	5 276	23 586	8 399	32 156	D
3399	Other miscellaneous mfg ..	-	11	4	328	8 987	225	461	4 451	18 746	24 317	42 146	D
33999	All other miscellaneous mfg	-	3	2	e	D	D	D	D	D	D	D	D
	MINNEAPOLIS-ST. PAUL, MN-WI MSA												
31-33	Manufacturing	-	5 348	1 832	234 192	8 760 753	149 754	301 937	4 517 611	22 995 873	21 548 557	44 599 702	1 982 886
	Minneapolis-St. Paul, MN-WI MSA (MN Part)	-	5 158	1 769	227 383	8 561 712	144 652	292 281	4 394 330	22 503 689	20 999 159	43 556 025	1 937 605
	Minneapolis-St. Paul, MN-WI MSA (WI Part)	-	190	63	6 809	199 041	5 102	9 656	123 281	492 184	549 398	1 043 677	45 281
311	Food mfg	1	291	119	14 388	436 039	9 255	18 694	236 016	1 385 688	2 256 152	3 664 125	113 973
3111	Animal food mfg	3	25	12	600	23 809	327	682	11 919	85 356	169 432	257 330	12 443
31111	Animal food mfg	3	25	12	600	23 809	327	682	11 919	85 356	169 432	257 330	12 443
311119	Other animal food mfg	3	21	11	f	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	18	9	575	23 703	463	1 013	18 192	175 689	365 560	543 757	10 758
31121	Flour milling & malt mfg ..	-	14	8	e	D	D	D	D	D	D	D	D
311211	Flour milling	-	9	7	331	13 096	265	630	10 507	45 603	253 244	299 654	D
3113	Sugar & confectionery product mfg	-	14	6	1 110	32 036	739	1 507	16 841	71 865	132 090	207 863	D
31133	Confectionery mfg from purchased chocolate ..	-	7	3	e	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	7	3	e	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	6	3	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ..	-	6	3	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	19	11	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	9	6	1 145	33 215	535	990	11 294	33 559	72 543	106 112	D
311412	Frozen specialty food mfg	-	8	6	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	4	10	5	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	MINNEAPOLIS—ST. PAUL, MN—WI MSA—Con.													
	Manufacturing—Con.													
311	Food mfg—Con.													
3115	Dairy product mfg	-	22	15	2 221	92 339	1 183	2 682	40 837	279 867	650 151	929 376	21 321	
31151	Dairy product (except frozen) mfg	-	20	15	g	D	D	D	D	D	D	D	D	
311511	Fluid milk mfg	-	6	6	f	D	D	D	D	D	D	D	D	
311513	Cheese mfg	-	7	4	e	D	D	D	D	D	D	D	D	
311514	Dry, condensed, & evaporated dairy product mfg	-	7	5		1 028	48 157	421	863	13 389	155 207	192 486	346 621	7 487
3116	Meat product mfg	4	21	10	1 606	43 477	1 170	2 403	25 275	78 681	285 126	364 604	7 891	
31161	Animal slaughtering & processing	4	21	10	1 606	43 477	1 170	2 403	25 275	78 681	285 126	364 604	7 891	
311612	Meat processed from carcasses	6	13	7	1 305	34 865	923	1 842	18 704	57 856	181 515	239 392	D	
3118	Bakeries & tortilla mfg	1	126	36	4 328	104 946	2 870	5 593	65 671	290 757	293 278	592 143	17 028	
31181	Bread & bakery product mfg	1	110	26	2 849	58 522	1 685	3 092	36 788	149 855	135 300	289 231	9 122	
311811	Retail bakeries	1	68	7	560	7 854	249	346	3 707	19 832	11 586	31 693	485	
311812	Commercial bakeries	1	35	15	1 787	39 559	1 009	1 915	24 483	98 084	80 254	178 279	6 084	
311813	Frozen cakes, pies, & other pastries mfg	2	7	4	502	11 109	427	831	8 598	31 939	43 460	79 259	2 553	
31182	Cookie, cracker, & pasta mfg	1	15	9	g	D	D	D	D	D	D	D	D	
311822	Flour mixes & dough mfg from purchased flour	2	10	6	g	D	D	D	D	D	D	D	D	
311823	Dry pasta mfg	-	3	1	e	D	D	D	D	D	D	D	D	
3119	Other food mfg	1	45	20	2 479	73 965	1 702	3 179	40 049	338 214	253 830	597 440	24 088	
31191	Snack food mfg	-	7	3	f	D	D	D	D	D	D	D	D	
311919	Other snack food mfg	-	5	2	e	D	D	D	D	D	D	D	D	
31199	All other food mfg	2	28	15	1 717	51 885	1 377	2 553	31 180	137 825	166 123	309 461	20 337	
311991	Perishable prepared food mfg	-	11	8	655	16 476	577	1 054	12 506	42 539	37 951	85 696	12 118	
311999	All other miscellaneous food mfg	2	17	7	1 062	35 409	800	1 499	18 674	95 286	128 172	223 765	8 219	
312	Beverage & tobacco product mfg	1	18	8	1 735	61 453	1 069	1 816	29 561	234 876	450 517	688 797	9 682	
3121	Beverage mfg	1	18	8	1 735	61 453	1 069	1 816	29 561	234 876	450 517	688 797	9 682	
31211	Soft drink & ice mfg	-	7	3	f	D	D	D	D	D	D	D	D	
312111	Soft drink mfg	-	3	2	f	D	D	D	D	D	D	D	D	
31212	Breweries	3	6	3	f	D	D	D	D	D	D	D	D	
312120	Breweries	3	6	3	f	D	D	D	D	D	D	D	D	
313	Textile mills	1	25	6	e	D	D	D	D	D	D	D	D	
3132	Fabric mills	-	10	4	e	D	D	D	D	D	D	D	D	
314	Textile product mills	2	82	9	799	16 706	609	1 162	9 950	37 160	34 955	71 722	1 385	
3141	Textile furnishings mills	4	31	3	311	5 375	252	466	3 740	10 788	12 546	23 384	474	
31412	Curtain & linen mills	3	28	3	e	D	D	D	D	D	D	D	D	
3149	Other textile product mills	1	51	6	488	11 331	357	696	6 210	26 372	22 409	48 338	911	
31499	All other textile product mills	1	31	4	348	7 852	263	516	4 752	15 948	14 959	30 861	554	
314999	All other miscellaneous textile product mills	1	31	4	348	7 852	263	516	4 752	15 948	14 959	30 861	554	
315	Apparel mfg	3	77	10	727	14 028	578	1 042	8 204	30 313	29 754	58 774	835	
3152	Cut & sew apparel mfg	3	48	6	408	7 101	316	503	4 125	13 148	10 495	23 362	298	
3159	Apparel accessories & other apparel mfg	2	26	4	293	6 406	237	493	3 633	15 825	17 839	32 655	487	
31599	Apparel accessories & other apparel mfg	2	26	4	293	6 406	237	493	3 633	15 825	17 839	32 655	487	
316	Leather & allied product mfg	1	16	5	e	D	D	D	D	D	D	D	838	
321	Wood product mfg	-	132	36	5 187	234 239	4 033	8 312	164 164	473 047	779 613	1 260 300	19 605	
3212	Veneer, plywood, & engineered wood product mfg	2	13	7	499	14 348	396	862	9 134	28 368	33 813	62 658	1 583	
32121	Veneer, plywood, & engineered wood product mfg	2	13	7	499	14 348	396	862	9 134	28 368	33 813	62 658	1 583	
321214	Truss mfg	1	7	6	427	12 136	338	711	7 399	23 487	27 273	51 121	1 203	

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg ...	—	107	27	4 542	215 596	3 528	7 266	152 735	435 311	700 081	1 142 030	16 676
32191	Millwork	—	41	10	h	D	D	D	D	D	D	D	14 605
321911	Wood window & door mfg	—	23	6	h	D	D	D	D	D	D	D	D
32192	Wood container & pallet mfg	3	30	11	553	7 738	449	665	5 458	15 989	18 089	34 267	1 094
321920	Wood container & pallet mfg	3	30	11	553	7 738	449	665	5 458	15 989	18 089	34 267	1 094
32199	All other wood product mfg	3	36	6	e	D	D	D	D	D	D	D	977
321999	All other miscellaneous wood product mfg ...	3	31	4	e	D	D	D	D	D	D	D	867
322	Paper mfg	—	97	62	i	D	D	D	D	D	D	D	72 067
3221	Pulp, paper, & paperboard mills	—	2	2	e	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	95	60	i	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	48	36	3 917	134 287	2 908	5 695	84 246	320 716	460 399	781 498	33 382
322211	Corrugated & solid fiber box mfg	—	28	23	h	D	D	D	D	D	D	D	D
322212	Folding paperboard box mfg	—	13	11	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	22	11	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	—	16	6	527	19 737	349	689	10 272	54 658	66 459	120 960	D
322224	Uncoated paper & multiwall bag mfg	—	2	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	15	10	g	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg	—	6	4	g	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	8	6	672	25 851	533	1 116	15 228	51 882	55 119	106 431	D
323	Printing & related support activities.....	1	769	206	24 393	866 411	16 304	32 736	500 858	1 892 044	1 300 376	3 192 946	154 878
3231	Printing & related support activities.....	1	769	206	24 393	866 411	16 304	32 736	500 858	1 892 044	1 300 376	3 192 946	154 878
32311	Printing	1	659	177	21 194	742 032	14 127	28 125	427 800	1 619 576	1 246 840	2 865 954	137 983
323110	Commercial lithographic printing ..	1	295	98	13 305	500 620	9 118	18 680	298 324	1 001 729	836 905	1 841 287	98 912
323112	Commercial flexographic printing ..	2	23	11	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing	—	85	20	2 371	63 267	1 523	2 785	33 868	180 726	90 670	267 495	12 822
323114	Quick printing	2	156	16	1 291	35 660	884	1 546	19 203	77 229	42 990	120 356	4 560
323116	Manifold business form printing	—	20	13	1 781	53 215	1 015	1 907	27 477	174 035	101 524	277 645	3 419
323117	Book printing.....	2	11	7	e	D	D	D	D	D	D	D	D
323119	Other commercial printing.....	3	46	6	757	28 066	471	985	14 413	44 330	47 688	91 532	2 493
32312	Support activities for printing	—	110	29	3 199	124 379	2 177	4 611	73 058	272 468	53 536	326 992	16 895
323121	Tradebinding & related work	—	42	9	678	18 754	585	1 136	13 543	33 312	7 071	40 665	1 161
323122	Prepress services	—	68	20	2 521	105 625	1 592	3 475	59 515	239 156	46 465	286 327	15 734
324	Petroleum & coal products mfg	—	20	11	g	D	D	D	D	D	D	D	40 085
3241	Petroleum & coal products mfg	—	20	11	g	D	D	D	D	D	D	D	40 085
32411	Petroleum refineries	—	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	2	2	g	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg	—	14	7	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture & block mfg	—	8	3	e	D	D	D	D	D	D	D	D
324122	Asphalt shingle & coating materials mfg	—	6	4	620	25 117	527	1 172	20 532	96 494	149 783	240 760	6 260

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	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg	2	168	61	6 800	284 107	3 822	7 468	126 687	1 129 766	847 201	1 975 124	114 972
3254	Pharmaceutical & medicine mfg	2	32	10	1 429	60 564	618	936	16 874	188 889	109 074	296 392	18 089
32541	Pharmaceutical & medicine mfg	2	32	10	1 429	60 564	618	936	16 874	188 889	109 074	296 392	18 089
325411	Medicinal & botanical mfg	2	7	2	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	1	11	4	406	16 957	162	195	3 048	94 956	40 975	133 894	3 519
325413	In-vitro diagnostic substance mfg	2	8	4	538	21 040	223	256	7 107	46 367	21 362	67 019	4 845
3255	Paint, coating, & adhesive mfg	1	24	9	633	25 032	272	516	7 949	72 221	94 140	169 307	D
32551	Paint & coating mfg	2	16	6	483	18 417	169	323	4 724	41 518	49 063	93 679	3 686
325510	Paint & coating mfg ...	2	16	6	483	18 417	169	323	4 724	41 518	49 063	93 679	3 686
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	46	19	3 437	143 433	2 222	4 579	77 854	678 913	459 364	1 132 020	54 727
32561	Soap & cleaning compound mfg	4	34	11	1 797	83 131	1 110	2 557	44 244	358 847	275 692	635 531	D
325611	Soap & other detergent mfg	8	12	4	e	D	D	D	D	D	D	D	5 070
325612	Polish & other sanitation good mfg ..	7	18	6	f	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	-	4	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ...	-	12	8	1 640	60 302	1 112	2 022	33 610	320 066	183 672	496 489	D
325620	Toilet preparation mfg .	-	12	8	1 640	60 302	1 112	2 022	33 610	320 066	183 672	496 489	D
3259	Other chemical product mfg	1	42	16	938	39 355	509	1 033	17 149	105 883	107 920	212 675	7 138
32591	Printing ink mfg	-	12	6	e	D	D	D	D	D	D	D	D
325910	Printing ink mfg	-	12	6	e	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	3	28	9	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	297	134	15 352	489 806	11 103	22 545	284 516	1 167 112	958 064	2 114 733	115 360
3261	Plastics product mfg	1	265	122	14 014	448 101	10 172	20 632	260 080	1 062 037	892 145	1 943 481	110 473
32611	Unsupported plastics film, sheet, & bag mfg ..	-	30	18	2 091	67 483	1 497	3 252	39 678	187 363	231 882	417 086	16 244
326111	Unsupported plastics bag mfg	1	9	5	e	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	4	4	e	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	17	9	1 224	38 504	939	2 101	24 008	120 144	129 812	247 204	8 949
32614	Polystyrene foam product mfg	7	9	5	e	D	D	D	D	D	D	D	2 730
326140	Polystyrene foam product mfg	7	9	5	e	D	D	D	D	D	D	D	2 730
32619	Other plastics product mfg	1	184	87	11 017	352 301	8 027	16 199	204 264	803 835	579 956	1 375 056	88 779
326199	All other plastics product mfg	1	177	85	10 902	349 085	7 938	16 029	202 370	789 678	572 760	1 353 713	88 334
3262	Rubber product mfg	1	32	12	1 338	41 705	931	1 913	24 436	105 075	65 919	171 252	4 887
32629	Other rubber product mfg	1	26	12	g	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	2	9	7	e	D	D	D	D	D	D	D	2 020
326299	All other rubber product mfg	1	17	5	893	26 619	622	1 265	15 664	73 718	46 615	120 683	D
327	Nonmetallic mineral product mfg	1	128	44	6 153	229 005	3 943	7 174	115 870	737 988	469 676	1 194 846	D
3272	Glass & glass product mfg .	-	20	5	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	20	5	f	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	1	17	4	e	D	D	D	D	D	D	D	D

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg	2	71	32	2 522	97 692	1 565	3 078	49 562	228 316	184 617	411 707	20 483
32732	Ready-mix concrete mfg	3	34	16	957	33 101	536	1 020	17 845	92 919	91 796	184 937	7 704
327320	Ready-mix concrete mfg	3	34	16	957	33 101	536	1 020	17 845	92 919	91 796	184 937	7 704
32733	Concrete pipe, brick, & block mfg	1	16	9	f	D	D	D	D	D	D	D	D
327331	Concrete block & brick mfg	—	11	5	e	D	D	D	D	D	D	D	3 596
327332	Concrete pipe mfg	3	5	4	e	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	2	20	7	980	43 029	541	1 142	16 648	67 674	47 772	113 790	D
327390	Other concrete product mfg	2	20	7	980	43 029	541	1 142	16 648	67 674	47 772	113 790	D
3279	Other nonmetallic mineral product mfg	—	19	6	2 773	101 912	1 711	2 784	44 848	435 329	223 261	648 218	D
32791	Abrasive product mfg ...	—	4	1	h	D	D	D	D	D	D	D	D
327910	Abrasive product mfg .	—	4	1	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	55	35	4 476	176 310	3 455	7 628	118 994	387 795	426 967	817 423	41 104
3311	Iron & steel mills & ferroalloy mfg	—	3	2	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	3	2	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	3	2	e	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	7	3	f	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	—	4	3	f	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	—	4	3	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	—	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	2	2	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	3	10	5	e	D	D	D	D	D	D	D	D
3315	Foundries	—	33	23	2 849	105 727	2 140	4 771	70 715	221 949	129 994	352 203	D
33151	Ferrous metal foundries .	—	11	8	659	21 104	551	1 149	16 607	53 958	20 963	74 974	D
331511	Iron foundries	1	7	5	506	16 368	425	899	12 680	43 490	16 669	60 330	2 736
33152	Nonferrous metal foundries	—	22	15	2 190	84 623	1 589	3 622	54 108	167 991	109 031	277 229	15 156
331521	Aluminum die-casting foundries	—	5	4	f	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	—	2	2	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	—	12	7	1 301	49 877	890	2 155	30 222	92 223	53 902	145 833	7 471
332	Fabricated metal product mfg	1	1 137	395	37 868	1 380 093	26 956	55 084	836 671	2 983 601	2 171 992	5 197 902	231 464
3321	Forging & stamping	2	83	53	6 719	234 542	5 149	10 681	147 763	408 871	354 831	768 433	41 885
33211	Forging & stamping	2	83	53	6 719	234 542	5 149	10 681	147 763	408 871	354 831	768 433	41 885
332114	Custom roll forming ...	—	5	4	e	D	D	D	D	D	D	D	D
332116	Metal stamping	2	74	48	i	D	D	D	D	D	D	D	41 567
3322	Cutlery & handtool mfg	—	35	17	1 272	49 673	819	1 723	23 782	104 036	89 145	187 812	7 835
33221	Cutlery & handtool mfg ..	—	35	17	1 272	49 673	819	1 723	23 782	104 036	89 145	187 812	7 835
332212	Hand & edge tool mfg .	—	29	15	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	174	69	5 373	179 654	3 705	7 581	106 800	407 017	356 057	757 484	26 979
33231	Plate work & fabricated structural product mfg ..	1	54	14	916	34 385	603	1 238	19 119	71 302	101 974	172 405	4 488
332312	Fabricated structural metal mfg	1	33	10	615	23 250	391	809	12 374	56 125	76 835	132 365	3 492
33232	Ornamental & architectural metal products mfg	—	120	55	4 457	145 269	3 102	6 343	87 681	335 715	254 083	585 079	22 491
332321	Metal window & door mfg	—	19	10	1 266	34 803	848	1 687	19 437	81 630	105 483	184 544	2 867
332322	Sheet metal work mfg .	—	80	40	2 859	99 343	2 036	4 191	61 946	225 707	124 508	347 892	17 066
332323	Ornamental & architectural metal work mfg	4	21	5	332	11 123	218	465	6 298	28 378	24 092	52 643	2 558

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg	—	24	13	1 988	77 461	1 577	3 265	60 101	179 837	319 645	503 314	12 601
33241	Power boiler & heat exchanger mfg	1	10	5	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	1	10	5	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	—	9	4	1 063	37 480	890	1 836	29 500	62 948	109 657	173 520	9 633
332420	Metal tank (heavy gauge) mfg	—	9	4	1 063	37 480	890	1 836	29 500	62 948	109 657	173 520	9 633
33243	Metal can, box, & other metal container (light gauge) mfg	—	5	4	f	D	D	D	D	D	D	D	D
332431	Metal can mfg	—	5	4	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	—	34	13	676	18 167	480	886	11 265	41 636	40 450	81 849	6 866
33261	Spring & wire product mfg	—	34	13	676	18 167	480	886	11 265	41 636	40 450	81 849	6 866
332618	Other fabricated wire product mfg	—	27	10	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	514	138	10 305	392 088	7 995	16 681	264 748	818 206	368 480	1 186 670	80 048
33271	Machine shops	1	434	92	7 105	266 932	5 389	10 743	175 497	566 140	247 638	817 280	53 221
332710	Machine shops	1	434	92	7 105	266 932	5 389	10 743	175 497	566 140	247 638	817 280	53 221
33272	Turned product & screw, nut, & bolt mfg	—	80	46	3 200	125 156	2 606	5 938	89 251	252 066	120 842	369 390	26 827
332721	Precision turned product mfg	—	73	42	h	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	—	7	4	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities .	2	143	55	3 957	117 499	3 074	6 196	75 398	237 735	120 563	358 274	22 283
33281	Coating, engraving, heat treating, & allied activities	2	143	55	3 957	117 499	3 074	6 196	75 398	237 735	120 563	358 274	22 283
332811	Metal heat treating	—	11	8	e	D	D	D	D	D	D	D	D
332812	Metal coating/engraving (exc jewelry/silverware)/ allied services	1	64	25	g	D	D	D	D	D	D	D	8 069
332813	Electroplating, plating, polishing, anodizing, & coloring	4	68	22	2 004	59 297	1 559	3 162	37 489	111 423	63 724	175 696	D
3329	Other fabricated metal product mfg	—	120	34	7 395	304 891	4 044	7 882	144 341	773 115	512 969	1 331 117	31 871
33291	Metal valve mfg	—	26	15	2 172	81 474	1 349	2 872	45 782	220 457	119 793	344 978	9 225
332911	Industrial valve mfg ...	—	7	6	f	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	—	17	9	1 368	51 462	887	2 028	30 873	143 982	66 286	212 163	D
33299	All other fabricated metal product mfg	—	94	19	5 223	223 417	2 695	5 010	98 559	552 658	393 176	986 139	22 646
332992	Small arms ammunition mfg	—	3	1	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	—	2	1	g	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	—	1	1	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	1	58	12	726	23 741	518	993	14 200	63 925	29 398	96 646	2 717
333	Machinery mfg	—	593	205	26 451	1 073 842	15 488	31 737	503 940	2 793 148	2 329 123	5 119 372	171 830
3331	Agriculture, construction, & mining machinery mfg	1	35	14	1 936	66 086	1 305	2 627	39 121	188 165	283 511	474 208	25 294
33311	Agricultural implement mfg	3	22	6	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	5	18	5	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	11	7	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	11	7	f	D	D	D	D	D	D	D	D

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3332	Industrial machinery mfg . . .	—	84	30	3 328	141 624	1 564	3 333	50 282	395 177	319 742	702 647	17 137
33321	Sawmill & woodworking machinery mfg	—	6	3	e	D	D	D	D	D	D	D	D
333210	Sawmill & woodworking machinery mfg	—	6	3	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	—	71	26	h	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg	1	15	4	e	D	D	D	D	D	D	D	D
333294	Food product machinery mfg	—	14	8	612	24 122	356	764	11 582	50 056	44 361	92 934	D
333295	Semiconductor machinery mfg	—	5	4	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	4	31	7	612	20 827	359	822	10 692	45 377	34 194	75 240	8 056
3333	Commercial & service industry machinery mfg . .	—	62	26	3 709	158 073	2 033	4 153	66 558	473 424	352 109	823 249	23 385
33331	Commercial & service industry machinery mfg	—	62	26	3 709	158 073	2 033	4 153	66 558	473 424	352 109	823 249	23 385
333311	Automatic vending machine mfg	—	6	2	e	D	D	D	D	D	D	D	D
333313	Office machinery mfg	1	6	3	352	14 873	128	218	3 985	39 993	32 482	72 554	719
333314	Optical instrument & lens mfg	4	8	5	e	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg	—	10	5	e	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg	—	30	11	2 326	100 457	1 310	2 719	43 702	337 586	262 656	595 704	18 654
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	45	20	4 140	164 956	2 454	4 515	69 096	377 045	393 159	776 363	12 525
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . .	—	45	20	4 140	164 956	2 454	4 515	69 096	377 045	393 159	776 363	12 525
333411	Air purification equipment mfg	—	11	3	e	D	D	D	D	D	D	D	D
333412	Industrial & commercial fan & blower mfg	2	7	4	392	12 401	255	444	6 337	24 367	23 048	46 598	816
333414	Heating equipment (except warm air furnaces) mfg	—	12	4	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	15	9	2 750	112 733	1 571	2 722	43 505	253 260	315 995	575 211	8 774
3335	Metalworking machinery mfg	1	210	56	5 015	206 548	3 633	7 418	133 772	419 376	173 458	594 830	36 891
33351	Metalworking machinery mfg	1	210	56	5 015	206 548	3 633	7 418	133 772	419 376	173 458	594 830	36 891
333511	Industrial mold mfg	—	86	24	1 345	61 248	1 074	2 241	44 864	103 717	34 534	141 254	13 043
333512	Machine tool (metal cutting types) mfg	1	6	4	667	25 744	468	923	16 196	46 471	45 461	98 358	D
333514	Special die & tool, die set, jig, & fixture mfg	—	75	17	2 044	85 257	1 391	2 944	51 365	203 593	54 974	254 729	16 724
333515	Cutting tool & machine tool accessory mfg	1	34	5	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	2	16	8	573	21 411	372	726	11 446	51 623	50 147	104 058	5 348
33361	Engine, turbine, & power transmission equipment mfg	2	16	8	573	21 411	372	726	11 446	51 623	50 147	104 058	5 348
3339	Other general-purpose machinery mfg	1	141	51	7 750	315 144	4 127	8 965	133 665	888 338	756 997	1 644 017	51 250
33391	Pump & compressor mfg	—	19	8	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	—	9	4	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	1	8	3	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	1	35	13	g	D	D	D	D	D	D	D	2 710
333922	Conveyor & conveying equipment mfg	1	17	8	455	15 635	243	476	5 654	36 644	28 997	65 467	1 636
333923	Overhead traveling crane, hoist, & monorail system mfg .	1	8	2	350	10 151	191	394	4 588	21 311	16 090	38 119	447
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	—	6	2	e	D	D	D	D	D	D	D	D

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg—Con.												
33399	All other general-purpose machinery mfg	1	87	30	h	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	—	22	8	1 402	60 581	642	1 320	22 863	109 667	114 830	228 237	7 091
333994	Industrial process furnace & oven mfg . .	5	6	5	598	25 332	308	680	11 087	76 927	34 008	112 619	1 800
333995	Fluid power cylinder & actuator mfg	—	5	2	269	11 121	171	396	5 180	24 251	23 060	48 596	321
333996	Fluid power pump & motor mfg	—	4	2	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	—	40	11	1 592	59 378	873	1 826	27 192	163 122	108 418	272 538	15 337
334	Computer & electronic product mfg	—	372	189	39 577	1 694 648	19 867	40 970	608 961	4 081 901	2 508 904	6 585 696	575 369
3341	Computer & peripheral equipment mfg	—	52	23	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	52	23	i	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	1	13	5	g	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	—	9	6	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	—	27	11	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	31	19	3 532	162 015	1 326	2 390	39 467	456 852	272 004	725 001	D
33421	Telephone apparatus mfg	—	13	8	g	D	D	D	D	D	D	D	14 295
334210	Telephone apparatus mfg	—	13	8	g	D	D	D	D	D	D	D	14 295
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	9	6	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	9	6	f	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	—	9	5	1 191	44 947	642	1 211	18 039	140 897	83 038	220 780	4 745
334290	Other communications equipment mfg	—	9	5	1 191	44 947	642	1 211	18 039	140 897	83 038	220 780	4 745
3344	Semiconductor & other electronic component mfg	—	124	68	10 687	372 470	6 897	13 244	188 269	924 356	613 265	1 519 856	D
33441	Semiconductor & other electronic component mfg	—	124	68	10 687	372 470	6 897	13 244	188 269	924 356	613 265	1 519 856	D
334412	Bare printed circuit board mfg	—	50	27	4 591	136 419	3 690	6 974	89 084	299 705	199 169	496 241	30 191
334413	Semiconductor & related device mfg	—	15	10	2 036	91 484	1 085	2 438	42 681	264 744	118 073	372 096	106 089
334415	Electronic resistor mfg	—	2	2	e	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	1	10	7	279	9 611	171	343	4 180	19 279	11 238	30 407	D
334418	Printed circuit assembly (electronic assembly) mfg	—	13	11	1 823	73 972	789	1 416	19 127	223 209	213 422	432 738	15 719
334419	Other electronic component mfg	—	26	7	1 460	44 806	835	1 471	25 414	86 720	59 313	145 605	7 747
3345	Navigational, measuring, medical, & control instruments mfg	—	132	63	17 119	790 948	7 992	16 823	282 121	2 082 359	872 633	2 939 480	D
33451	Navigational, measuring, medical, & control instruments mfg	—	132	63	17 119	790 948	7 992	16 823	282 121	2 082 359	872 633	2 939 480	D
334510	Electromedical & electrotherapeutic apparatus mfg	—	38	21	5 835	284 847	2 352	5 469	65 619	960 401	210 072	1 156 000	D
334511	Search, detection, navigation, & guidance instrument mfg	—	7	4	h	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	—	9	3	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	—	26	12	h	D	D	D	D	D	D	D	24 182

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg—Con.												
33451	Navigational, measuring, medical, & control instruments mfg—Con.												
334515	Electricity measuring & testing instrument mfg	-	17	8	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	-	9	5	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	-	23	10	g	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	3	22	11	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	3	22	11	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	-	9	5	390	10 371	262	487	6 329	32 305	17 993	50 439	4 596
334613	Magnetic & optical recording media mfg .	-	6	4	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	114	53	8 163	308 499	4 970	9 244	157 924	648 551	762 076	1 430 177	52 028
3351	Electric lighting equipment mfg	-	7	3	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	7	3	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	-	2	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	69	27	4 717	173 696	2 657	4 381	80 209	215 386	519 411	759 286	25 576
33531	Electrical equipment mfg	-	69	27	4 717	173 696	2 657	4 381	80 209	215 386	519 411	759 286	25 576
335312	Motor & generator mfg	-	13	7	2 568	108 490	1 714	2 708	55 813	93 711	366 216	460 290	8 488
335314	Relay & industrial control mfg	-	35	14	1 841	55 363	743	1 292	19 224	100 658	136 745	260 733	15 876
3359	Other electrical equipment & component mfg	-	35	21	2 990	120 369	2 044	4 324	70 917	400 638	215 752	611 346	19 619
33593	Wiring device mfg	-	9	6	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	3	3	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	4	22	12	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	4	21	12	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	105	39	5 443	217 226	4 262	8 442	157 912	1 417 117	1 605 609	3 006 003	82 046
3361	Motor vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	20	6	549	14 861	393	801	8 909	35 405	49 487	85 211	D
33621	Motor vehicle body & trailer mfg	-	20	6	549	14 861	393	801	8 909	35 405	49 487	85 211	D
336211	Motor vehicle body mfg	-	13	4	421	11 856	295	607	6 992	31 164	42 247	73 617	D
3363	Motor vehicle parts mfg ...	1	42	17	2 013	61 872	1 439	2 717	35 092	186 866	198 740	375 572	11 172
33631	Motor vehicle gasoline engine & engine parts mfg	-	14	3	399	9 838	305	599	6 451	45 319	43 616	86 054	929
336312	Gasoline engine & engine parts mfg	-	12	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	2	10	6	1 032	27 221	742	1 206	14 191	57 657	64 759	122 852	4 684
336322	Other motor vehicle electrical & electronic equipment mfg	2	10	6	1 032	27 221	742	1 206	14 191	57 657	64 759	122 852	4 684
33635	Motor vehicle transmission & power train parts mfg	-	4	2	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	4	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	MINNEAPOLIS—ST. PAUL, MN—WI MSA—Con.													
	Manufacturing—Con.													
336	Transportation equipment mfg—Con.													
3364	Aerospace product & parts mfg	2	11	6	e	D	D	D	D	D	D	D	D	
33641	Aerospace product & parts mfg	2	11	6	e	D	D	D	D	D	D	D	D	
336413	Other aircraft part & auxiliary equipment mfg	1	9	4	e	D	D	D	D	D	D	D	D	
3366	Ship & boat building	1	9	4	e	D	D	D	D	D	D	D	D	
33661	Ship & boat building	1	9	4	e	D	D	D	D	D	D	D	D	
336612	Boat building	1	8	4	e	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	1	348	67		6 831	195 952	5 203	10 181	125 368	417 679	385 936	806 450	27 899
3371	Household & institutional furniture & kitchen cabinet mfg	—	229	25		3 677	93 030	2 942	5 469	66 265	219 362	160 520	380 212	D
33711	Wood kitchen cabinet & counter top mfg	—	155	14		2 633	63 611	2 140	3 987	47 784	164 364	114 154	278 750	4 413
337110	Wood kitchen cabinet & counter top mfg ...	—	155	14		2 633	63 611	2 140	3 987	47 784	164 364	114 154	278 750	4 413
33712	Household & institutional furniture mfg	1	74	11		1 044	29 419	802	1 482	18 481	54 998	46 366	101 462	D
337122	Nonupholstered wood household furniture mfg	6	44	4		252	5 226	218	381	3 918	8 935	7 158	16 112	725
337127	Institutional furniture mfg	—	10	6		651	21 540	471	922	12 884	40 293	32 949	73 326	1 457
3372	Office furniture (including fixtures) mfg	1	101	36		2 279	79 423	1 576	3 357	43 944	160 934	116 025	278 760	5 750
33721	Office furniture (including fixtures) mfg	1	101	36		2 279	79 423	1 576	3 357	43 944	160 934	116 025	278 760	5 750
337211	Wood office furniture mfg	1	18	5		276	7 559	209	413	4 949	19 407	12 547	32 042	699
337212	Custom architectural woodwork & millwork mfg	2	26	10		537	17 074	396	873	11 264	31 178	20 816	52 070	990
337214	Office furniture (except wood) mfg	—	6	3		269	9 437	166	389	4 657	16 910	15 295	32 202	623
337215	Showcase, partition, shelving, & locker mfg	1	51	18		1 197	45 353	805	1 682	23 074	93 439	67 367	162 446	3 438
3379	Other furniture related product mfg	1	18	6		875	23 499	685	1 355	15 159	37 383	109 391	147 478	D
33791	Mattress mfg	2	13	4	f	D	D	D	D	D	D	D	D	14 789
337910	Mattress mfg	2	13	4	f	D	D	D	D	D	D	D	D	14 789
339	Miscellaneous mfg	1	504	138		19 673	701 659	11 272	21 959	287 313	1 685 927	778 949	2 467 128	93 005
3391	Medical equipment & supplies mfg	1	238	79		13 119	522 025	7 295	14 608	200 171	1 240 141	501 830	1 750 516	73 150
33911	Medical equipment & supplies mfg	1	238	79		13 119	522 025	7 295	14 608	200 171	1 240 141	501 830	1 750 516	73 150
339111	Laboratory apparatus & furniture mfg	—	6	3	e	D	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg	1	74	32		9 012	381 457	4 710	9 740	138 078	878 388	340 419	1 226 251	56 125
339113	Surgical appliance & supplies mfg	1	51	23		2 021	73 282	1 226	2 162	28 187	211 242	91 128	304 858	13 274
339115	Ophthalmic goods mfg	—	6	5	f	D	D	D	D	D	D	D	D	D
339116	Dental laboratories ...	3	89	15		954	26 675	702	1 326	17 832	49 001	14 557	64 222	1 801
3399	Other miscellaneous mfg ..	1	266	59		6 554	179 634	3 977	7 351	87 142	445 786	277 119	716 612	19 855
33991	Jewelry & silverware mfg	6	26	5	e	D	D	D	D	D	D	D	D	707
339911	Jewelry (except costume) mfg	6	17	3	e	D	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg	—	38	8		787	27 361	501	1 062	12 607	100 036	65 153	164 087	3 187
339920	Sporting & athletic goods mfg	—	38	8		787	27 361	501	1 062	12 607	100 036	65 153	164 087	3 187
33995	Sign mfg	—	96	24		2 139	66 656	1 408	2 713	32 145	136 517	97 000	230 347	6 401
339950	Sign mfg	—	96	24		2 139	66 656	1 408	2 713	32 145	136 517	97 000	230 347	6 401
33999	All other miscellaneous mfg	1	79	20		2 929	66 172	1 668	2 870	34 642	152 465	82 083	233 688	D
339991	Gasket, packing, & sealing device mfg ...	1	16	8	g	D	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg	—	3	3	e	D	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	1	48	8		1 574	25 674	815	1 046	11 788	68 467	33 984	101 420	D

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SHEBOYGAN, WI MSA													
31-33	Manufacturing	1	239	117	20 047	628 324	14 618	28 148	383 824	2 034 961	2 203 789	4 252 678	146 005
311	Food mfg.....	3	31	16	3 017	92 756	1 944	3 753	45 994	381 960	705 114	1 086 904	25 490
3115	Dairy product mfg	3	12	8	1 823	59 887	1 099	2 150	28 639	273 334	526 869	800 266	14 871
31151	Dairy product (except frozen) mfg	3	11	8	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	4	10	7	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	1	4	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	1	4	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	1	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	3	2	e	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	1	1	e	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	1	1	e	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	12	8	432	10 226	273	517	5 315	25 625	22 758	48 586	590
3219	Other wood product mfg ...	2	11	7	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	5	625	22 404	499	1 009	12 488	50 390	62 846	113 181	4 523
3222	Converted paper product mfg	-	9	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	6	4	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	-	2	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	20	7	811	23 198	635	1 245	15 617	43 591	41 937	84 848	2 639
3231	Printing & related support activities.....	1	20	7	811	23 198	635	1 245	15 617	43 591	41 937	84 848	2 639
32311	Printing	1	17	7	796	22 767	622	1 224	15 337	42 585	41 676	83 582	2 587
323110	Commercial lithographic printing ..	-	8	3	527	15 777	416	805	10 731	27 914	31 338	58 916	1 884
325	Chemical mfg	-	7	5	655	22 495	436	861	13 504	71 809	93 408	166 816	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	3	3	e	D	D	D	D	D	D	D	7 436
32521	Resin & synthetic rubber mfg	-	3	3	e	D	D	D	D	D	D	D	7 436
325211	Plastics material & resin mfg	-	3	3	e	D	D	D	D	D	D	D	7 436
326	Plastics & rubber products mfg	-	19	15	2 427	88 285	1 890	3 278	61 437	222 269	161 882	390 170	24 114
3261	Plastics product mfg	-	19	15	2 427	88 285	1 890	3 278	61 437	222 269	161 882	390 170	24 114
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	5	4	e	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg	-	5	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	12	9	1 957	73 432	1 506	2 459	51 820	190 829	126 225	323 729	20 905
326199	All other plastics product mfg	-	12	9	1 957	73 432	1 506	2 459	51 820	190 829	126 225	323 729	20 905
327	Nonmetallic mineral product mfg	-	12	7	853	29 468	695	1 462	23 337	78 740	34 947	120 708	2 342
3271	Clay product & refractory mfg	-	1	1	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	9	7	1 421	45 548	1 219	2 387	34 292	111 321	189 243	311 846	31 503
3315	Foundries	-	8	7	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	6	5	g	D	D	D	D	D	D	D	29 860
331521	Aluminum die-casting foundries	-	2	2	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SHEBOYGAN, WI MSA —Con.												
31-33	Manufacturing— Con.												
332	Fabricated metal product mfg	—	47	12	3 221	91 671	2 508	5 117	56 899	496 194	191 855	691 634	18 484
3321	Forging & stamping	—	3	2	e	D	D	D	D	D	D	D	D
33211	Forging & stamping	—	3	2	e	D	D	D	D	D	D	D	D
332116	Metal stamping	—	3	2	e	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg . . .	—	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg . .	—	1	1	f	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	—	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	9	4	267	6 955	204	404	5 098	14 527	12 795	27 616	309
33232	Ornamental & architectural metal products mfg	—	9	4	267	6 955	204	404	5 098	14 527	12 795	27 616	309
3329	Other fabricated metal product mfg	—	8	3	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	8	3	g	D	D	D	D	D	D	D	D
332998	Enameled iron & metal sanitary ware mfg . . .	—	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	1	33	12	2 938	90 825	1 785	3 515	47 562	287 486	314 823	595 839	18 501
3332	Industrial machinery mfg . .	—	8	2	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	—	6	1	e	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	—	1	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	3	9	4	1 291	43 887	685	1 234	18 704	104 834	100 419	206 903	6 089
33391	Pump & compressor mfg	9	2	1	e	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	9	1	1	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	—	7	3	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	—	4	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	—	2	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg . .	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	3	3	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . .	—	1	1	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	—	1	1	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg . . .	—	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	13	10	1 332	39 783	1 076	2 221	22 996	86 484	60 199	142 070	2 897
3371	Household & institutional furniture & kitchen cabinet mfg	—	6	4	892	23 948	763	1 564	15 339	55 755	39 622	90 517	2 124
33712	Household & institutional furniture mfg	—	5	4	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	—	2	2	e	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	—	2	2	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	—	7	6	440	15 835	313	657	7 657	30 729	20 577	51 553	773
33721	Office furniture (including fixtures) mfg	—	7	6	440	15 835	313	657	7 657	30 729	20 577	51 553	773

Table 2. Industry Statistics for Metropolitan Areas: 1997—Con.

[Includes data for industry groups and industries with 250 employees or more. For definitions of CMSAs, MSAs, and PMSAs, information on geographic areas followed by *, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SHEBOYGAN, WI MSA —Con.												
31-33	Manufacturing— Con.												
339	Miscellaneous mfg.....	1	12	5	550	16 351	396	754	8 193	49 083	13 790	62 544	1 068
3391	Medical equipment & supplies mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
339114	Dental equipment & supplies mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	5	10	4	e	D	D	D	D	D	D	D	D
33995	Sign mfg.....	5	6	4	e	D	D	D	D	D	D	D	D
339950	Sign mfg.....	5	6	4	e	D	D	D	D	D	D	D	D
	WAUSAU, WI MSA												
31-33	Manufacturing....	—	232	98	16 839	502 563	13 422	26 519	354 835	1 295 226	1 896 838	3 181 899	121 883
311	Food mfg.....	—	28	11	1 501	42 748	1 235	2 700	33 072	132 880	798 375	928 839	15 674
3115	Dairy product mfg.....	—	16	10	1 278	38 114	1 034	2 256	29 703	120 705	745 502	862 822	D
31151	Dairy product (except frozen) mfg.....	—	16	10	1 278	38 114	1 034	2 256	29 703	120 705	745 502	862 822	D
311513	Cheese mfg.....	—	13	8	g	D	D	D	D	D	D	D	13 459
321	Wood product mfg.....	—	34	14	4 027	106 281	3 532	7 270	84 626	267 311	306 421	571 339	18 403
3219	Other wood product mfg...	—	22	13	3 875	103 302	3 395	7 001	81 987	260 931	299 496	558 475	18 070
32191	Millwork.....	—	9	4	3 018	78 671	2 767	5 718	68 348	191 294	192 910	381 478	12 453
321911	Wood window & door mfg.....	—	4	2	h	D	D	D	D	D	D	D	D
32199	All other wood product mfg.....	—	4	4	612	19 675	422	924	10 274	61 474	98 034	160 110	D
321992	Prefabricated wood building mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	—	9	8	2 731	113 957	2 069	4 289	81 343	332 755	347 754	681 456	44 128
3221	Pulp, paper, & paperboard mills.....	—	3	3	g	D	D	D	D	D	D	D	D
32212	Paper mills.....	—	3	3	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills.....	—	3	3	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	—	6	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	—	4	4	646	21 190	522	1 062	15 679	68 262	71 522	139 607	3 031
322212	Folding paperboard box mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	15	5	306	7 715	221	384	4 570	13 846	9 120	22 880	1 401
3231	Printing & related support activities.....	1	15	5	306	7 715	221	384	4 570	13 846	9 120	22 880	1 401
32311	Printing.....	1	15	5	306	7 715	221	384	4 570	13 846	9 120	22 880	1 401
327	Nonmetallic mineral product mfg.....	—	13	6	773	19 390	573	1 174	12 967	42 372	38 980	80 831	4 130
3272	Glass & glass product mfg.	—	2	2	e	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	—	2	2	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg.....	—	8	2	351	10 021	253	540	6 622	19 151	19 364	38 854	2 946
32739	Other concrete product mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
327390	Other concrete product mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	52	25	4 299	126 686	3 235	5 768	80 000	322 510	210 628	525 500	20 878
3322	Cutlery & handtool mfg....	1	3	2	g	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg..	1	3	2	g	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg.....	—	2	1	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	—	14	9	2 375	79 761	1 649	3 285	46 778	184 316	130 271	312 098	13 306
33232	Ornamental & architectural metal products mfg.....	—	9	5	2 176	73 563	1 494	2 914	42 199	167 197	121 295	286 692	12 978
332321	Metal window & door mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg..	—	5	3	g	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	16	5	523	18 083	398	807	12 967	38 225	21 494	59 504	2 593

Table 2. Industry Statistics for Metropolitan Areas: 1997—Con.

[Includes data for industry groups and industries with 250 employees or more. For definitions of CMSAs, MSAs, and PMSAs, information on geographic areas followed by *, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WAUSAU, WI MSA— Con. Manufacturing— Con.												
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	2	1	e	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	8	4	688	20 243	563	1 096	14 750	54 762	39 084	93 026	3 993
3363	Motor vehicle parts mfg ...	-	4	2	e	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	2	1	e	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	16	7	631	12 653	495	921	10 331	14 990	26 569	41 684	925
3371	Household & institutional furniture & kitchen cabinet mfg	-	13	4	e	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	-	2	2	e	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	2	2	e	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	2	2	e	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.

²Industries 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: c–100 to 249 employees; e–250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

Table 3. Industry Statistics for Counties: 1997

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ASHLAND COUNTY, WI Manufacturing	-	28	15	1 661	44 776	1 341	2 664	32 201	73 662	78 867	150 728	7 376
321	Wood product mfg	-	12	10	827	15 159	739	1 408	12 459	28 945	43 968	71 004	3 146
31-33	BARRON COUNTY, WI Manufacturing	1	96	32	5 430	133 897	4 488	8 664	94 194	403 400	490 563	891 541	28 070
311	Food mfg	1	13	7	2 242	53 374	1 800	3 569	33 830	171 474	319 436	492 779	17 120
3114	Fruit & vegetable preserving & specialty food mfg	5	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	7	4	525	12 593	439	564	8 933	26 129	31 002	57 473	1 440
3261	Plastics product mfg	-	7	4	525	12 593	439	564	8 933	26 129	31 002	57 473	1 440
332	Fabricated metal product mfg	5	13	6	1 034	27 940	893	1 877	20 970	61 668	59 833	120 608	3 517
3325	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BROWN COUNTY, WI													
31-33	Manufacturing	1	396	168	25 825	1 015 651	18 473	38 396	602 579	2 588 409	3 885 894	6 457 440	224 977
311	Food mfg.....	2	47	20	4 985	127 841	3 909	8 549	97 167	444 244	1 439 824	1 881 094	35 948
3114	Fruit & vegetable preserving & specialty food mfg.....	8	6	4	778	19 778	610	1 453	13 801	56 852	84 086	141 027	D
31142	Fruit & vegetable canning, pickling, & drying.....	9	4	3	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	9	4	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	12	6	1 015	33 661	613	1 563	26 869	97 543	443 751	542 223	18 094
31151	Dairy product (except frozen) mfg.....	-	9	6	977	32 010	585	1 505	26 030	91 708	434 358	526 642	D
311513	Cheese mfg.....	-	7	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	2	9	6	2 585	60 555	2 169	4 505	47 843	252 907	884 246	1 134 024	5 965
31161	Animal slaughtering & processing.....	2	9	6	2 585	60 555	2 169	4 505	47 843	252 907	884 246	1 134 024	5 965
311611	Animal (except poultry) slaughtering.....	2	8	5	h	D	D	D	D	D	D	D	D
321	Wood product mfg.....	2	23	10	508	11 500	371	704	7 268	26 485	43 032	69 084	990
322	Paper mfg.....	-	30	24	8 676	455 682	6 464	13 540	260 462	1 136 784	1 606 051	2 737 232	126 974
3221	Pulp, paper, & paperboard mills.....	-	8	8	5 508	325 060	3 979	8 362	164 774	631 129	571 237	1 189 890	D
32212	Paper mills.....	-	4	4	5 189	311 183	3 745	7 796	156 308	580 801	499 859	1 068 324	68 449
322121	Paper (except newsprint) mills.....	-	4	4	5 189	311 183	3 745	7 796	156 308	580 801	499 859	1 068 324	68 449
3222	Converted paper product mfg.....	-	22	16	3 168	130 622	2 485	5 178	95 688	505 655	1 034 814	1 547 342	D
32221	Paperboard container mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg.....	-	7	4	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg.....	-	11	8	2 109	91 361	1 747	3 567	71 966	405 829	831 658	1 244 774	36 940
322291	Sanitary paper product mfg.....	-	7	6	2 003	88 448	1 664	3 432	70 509	394 065	824 938	1 226 800	35 710
323	Printing & related support activities.....	5	48	14	2 012	60 253	1 455	2 585	44 359	177 691	97 862	275 420	12 259
3231	Printing & related support activities.....	5	48	14	2 012	60 253	1 455	2 585	44 359	177 691	97 862	275 420	12 259
32311	Printing.....	5	43	13	1 962	58 587	1 419	2 519	43 157	173 826	96 265	269 942	D
323110	Commercial lithographic printing..	-	19	7	817	16 595	519	796	10 160	31 490	21 881	53 195	1 889
323112	Commercial flexographic printing..	7	4	3	852	35 662	691	1 312	28 973	128 749	63 167	191 921	9 283
332	Fabricated metal product mfg.....	-	70	27	1 719	61 710	1 296	2 687	40 604	130 194	91 738	220 382	7 092
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	33	8	f	D	D	D	D	D	D	D	2 443
33271	Machine shops.....	1	32	8	591	21 931	458	898	14 580	40 249	25 387	64 321	2 443
332710	Machine shops.....	1	32	8	591	21 931	458	898	14 580	40 249	25 387	64 321	2 443
333	Machinery mfg.....	-	57	27	3 337	149 428	1 914	3 782	76 674	307 262	252 838	557 995	15 685
3332	Industrial machinery mfg ..	-	26	15	2 300	110 568	1 228	2 402	54 991	226 455	171 968	392 918	11 092
33329	Other industrial machinery mfg.....	-	24	14	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg.....	-	13	9	621	26 175	368	734	14 133	72 242	51 652	124 191	5 030
333293	Printing machinery & equipment mfg.....	-	5	3	1 458	75 947	730	1 410	36 709	136 033	107 507	237 891	D
3339	Other general-purpose machinery mfg.....	1	15	8	714	27 200	466	912	16 107	45 796	47 564	96 551	2 988
33399	All other general-purpose machinery mfg.....	1	14	7	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg.....	1	6	5	601	23 538	378	742	13 465	38 552	42 337	83 982	2 558
336	Transportation equipment mfg.....	-	6	3	f	D	D	D	D	D	D	D	2 520
3366	Ship & boat building.....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building.....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building.....	-	1	1	f	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BROWN COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	—	21	9	1 596	63 463	918	2 130	23 257	104 635	58 946	163 267	4 922
3371	Household & institutional furniture & kitchen cabinet mfg	—	18	7	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	—	18	7	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg	—	18	7	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	—	2	2	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	—	2	2	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	—	1	1	f	D	D	D	D	D	D	D	D
BURNETT COUNTY, WI													
31-33	Manufacturing	1	32	12	1 106	30 327	882	1 983	23 063	100 225	77 308	176 738	9 827
332	Fabricated metal product mfg	2	7	4	f	D	D	D	D	D	D	D	D
CALUMET COUNTY, WI													
31-33	Manufacturing	—	64	31	6 078	190 881	4 730	9 470	131 505	487 921	529 297	1 018 924	32 779
311	Food mfg	1	12	10	744	26 115	458	946	11 521	74 611	126 855	200 418	7 848
331	Primary metal mfg	—	2	2	g	D	D	D	D	D	D	D	D
3315	Foundries	—	2	2	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	10	7	3 022	92 276	2 356	4 590	65 401	231 893	266 069	501 197	14 615
3331	Agriculture, construction, & mining machinery mfg	—	5	4	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	—	3	2	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
CHIPPEWA COUNTY, WI													
31-33	Manufacturing	—	112	39	6 442	203 739	4 731	8 280	140 638	440 235	549 353	989 799	37 427
316	Leather & allied product mfg	—	2	2	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	—	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	—	1	1	f	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	8	5	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	8	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	15	9	804	28 145	624	1 386	19 256	59 635	45 732	109 334	D
334	Computer & electronic product mfg	—	7	3	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	1	1	g	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CLARK COUNTY, WI													
31-33	Manufacturing	-	87	36	2 863	70 706	2 371	4 487	50 126	199 771	607 157	799 630	13 695
311	Food mfg	-	24	13	921	22 950	690	1 217	14 419	89 828	455 085	540 445	4 024
3115	Dairy product mfg	-	15	10	675	16 918	529	883	11 687	74 937	410 597	481 108	3 709
31151	Dairy product (except frozen) mfg	-	15	10	675	16 918	529	883	11 687	74 937	410 597	481 108	3 709
321	Wood product mfg	-	15	6	570	13 340	470	900	9 829	34 315	42 604	75 658	2 564
3219	Other wood product mfg ...	-	11	5	527	12 480	432	841	9 107	32 611	40 152	71 513	2 395
COLUMBIA COUNTY, WI													
31-33	Manufacturing	1	108	44	5 311	159 129	4 059	8 242	104 334	508 974	758 613	1 262 426	31 363
311	Food mfg	1	25	11	1 131	28 948	967	2 042	22 555	98 818	331 346	426 415	4 987
3114	Fruit & vegetable preserving & specialty food mfg	4	9	8	573	14 886	504	1 110	11 318	58 152	67 774	125 800	2 877
326	Plastics & rubber products mfg	4	11	8	941	29 670	727	1 447	18 365	65 974	96 745	161 845	7 565
3261	Plastics product mfg	1	8	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	14	7	996	32 352	614	1 235	17 034	102 584	150 776	253 200	5 230
CRAWFORD COUNTY, WI													
31-33	Manufacturing	-	20	11	2 252	50 802	1 802	2 946	35 663	366 904	138 199	509 068	7 714
327	Nonmetallic mineral product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327910	Abrasive product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
DANE COUNTY, WI													
31-33	Manufacturing	-	564	187	26 568	864 440	18 841	37 854	507 789	2 484 947	2 334 302	4 840 470	132 277
311	Food mfg	-	53	24	4 748	145 792	3 803	7 992	113 367	664 195	780 156	1 446 065	20 506
3115	Dairy product mfg	-	6	5	560	16 958	350	720	9 824	68 006	296 955	362 221	2 770
3116	Meat product mfg	-	9	4	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	9	4	h	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	6	3	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	16	7	f	D	D	D	D	D	D	D	2 765
31181	Bread & bakery product mfg	-	14	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	9	5	687	16 299	344	569	10 065	63 493	24 025	87 902	1 741
321	Wood product mfg	2	29	9	570	14 732	430	869	9 260	32 007	38 950	71 840	2 749
323	Printing & related support activities	-	109	24	2 651	87 129	2 035	3 969	57 444	177 593	95 067	275 162	12 434
3231	Printing & related support activities	-	109	24	2 651	87 129	2 035	3 969	57 444	177 593	95 067	275 162	12 434
32311	Printing	-	91	20	2 329	73 919	1 783	3 498	48 666	153 660	89 032	245 468	10 506
323110	Commercial lithographic printing ..	-	40	7	869	26 182	641	1 232	16 049	52 098	28 117	81 159	4 870
323117	Book printing	-	7	4	832	30 193	683	1 345	21 702	51 331	36 851	89 664	1 311
325	Chemical mfg	-	28	14	1 189	40 843	686	1 366	17 553	147 653	98 574	243 090	13 578
3254	Pharmaceutical & medicine mfg	-	10	7	722	28 555	351	711	10 064	84 362	38 948	120 391	10 304
32541	Pharmaceutical & medicine mfg	-	10	7	722	28 555	351	711	10 064	84 362	38 948	120 391	10 304
326	Plastics & rubber products mfg	2	36	16	2 566	81 520	1 971	3 968	51 209	225 683	168 143	392 752	17 569
3261	Plastics product mfg	2	31	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	25	12	2 015	60 152	1 507	3 006	34 206	171 710	118 553	289 113	14 219
326199	All other plastics product mfg	2	24	12	g	D	D	D	D	D	D	D	14 219
327	Nonmetallic mineral product mfg	-	23	7	617	18 388	476	1 015	12 185	37 102	32 308	69 298	3 386
331	Primary metal mfg	-	6	3	719	24 710	591	1 188	17 704	49 012	34 126	83 394	D
3315	Foundries	-	5	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DANE COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	69	20	1 711	53 769	1 188	2 450	31 740	118 803	123 095	245 029	8 784
3323	Architectural & structural metals mfg	-	23	9	755	25 246	527	1 108	14 831	54 164	64 474	118 416	2 596
333	Machinery mfg	-	38	21	2 161	67 488	1 340	2 446	31 954	181 242	183 548	359 166	9 728
3332	Industrial machinery mfg ..	-	5	4	747	18 628	490	872	9 276	50 518	55 755	105 304	1 825
33329	Other industrial machinery mfg	-	5	4	747	18 628	490	872	9 276	50 518	55 755	105 304	1 825
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	35	17	2 028	91 986	616	1 241	15 627	267 125	138 647	407 564	9 607
3345	Navigational, measuring, medical, & control instruments mfg	-	20	12	1 537	72 798	393	797	10 057	220 717	110 854	332 386	7 210
33451	Navigational, measuring, medical, & control instruments mfg	-	20	12	1 537	72 798	393	797	10 057	220 717	110 854	332 386	7 210
334516	Analytical laboratory instrument mfg	-	6	4	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	9	5	1 211	43 248	737	1 531	23 992	271 765	144 266	416 348	5 595
336	Transportation equipment mfg	-	12	6	1 609	36 814	1 429	2 942	30 096	96 782	204 555	308 327	2 810
3362	Motor vehicle body & trailer mfg	-	6	2	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	6	2	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	-	5	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	38	9	2 283	61 305	1 813	3 187	42 203	72 737	144 027	215 596	5 446
3371	Household & institutional furniture & kitchen cabinet mfg	-	26	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	14	1	592	11 134	491	728	7 648	9 258	34 928	42 506	622
337122	Nonupholstered wood household furniture mfg	-	9	1	f	D	D	D	D	D	D	D	577
3379	Other furniture related product mfg	-	2	1	g	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	2	1	g	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	2	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	55	7	1 809	71 796	1 166	2 431	35 902	71 705	67 299	153 116	8 414
3391	Medical equipment & supplies mfg	-	26	4	1 492	63 750	955	2 053	31 929	55 211	56 157	125 319	D
33911	Medical equipment & supplies mfg	-	26	4	1 492	63 750	955	2 053	31 929	55 211	56 157	125 319	D
339112	Surgical & medical instrument mfg	-	5	2	g	D	D	D	D	D	D	D	D
DODGE COUNTY, WI													
31-33	Manufacturing	-	164	81	12 667	413 773	9 898	20 563	293 842	1 111 654	2 050 029	3 159 894	120 834
311	Food mfg	-	24	15	2 196	59 691	1 738	3 457	45 691	197 686	780 290	981 379	22 397
3114	Fruit & vegetable preserving & specialty food mfg	-	4	4	612	16 044	483	794	11 191	39 315	50 786	90 646	1 772
3115	Dairy product mfg	-	12	8	1 342	36 696	1 055	2 158	30 146	127 527	638 387	767 833	18 557
31151	Dairy product (except frozen) mfg	-	12	8	1 342	36 696	1 055	2 158	30 146	127 527	638 387	767 833	18 557
311513	Cheese mfg	-	11	8	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	6	2	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	6	2	g	D	D	D	D	D	D	D	D
32311	Printing	-	5	1	g	D	D	D	D	D	D	D	D
323111	Commercial gravure printing	-	1	1	g	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DODGE COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	48	29	3 695	115 526	2 879	6 044	77 316	245 521	227 951	472 299	21 952
3321	Forging & stamping	-	8	6	1 428	45 894	1 179	2 548	32 891	95 765	107 384	201 368	12 787
33211	Forging & stamping	-	8	6	1 428	45 894	1 179	2 548	32 891	95 765	107 384	201 368	12 787
332116	Metal stamping.....	-	5	4	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	9	9	991	30 976	714	1 522	20 466	65 537	39 460	107 081	D
33232	Ornamental & architectural metal products mfg.....	-	8	8	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg .	-	7	7	f	D	D	D	D	D	D	D	3 948
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	19	7	748	21 957	583	1 061	12 723	45 647	25 790	70 065	3 056
33272	Turned product & screw, nut, & bolt mfg	1	6	4	531	16 118	407	791	8 796	36 336	19 525	55 184	2 128
332722	Bolt, nut, screw, rivet, & washer mfg	1	4	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	23	13	2 791	137 293	1 935	4 083	87 897	468 375	736 188	1 202 764	48 970
3331	Agriculture, construction, & mining machinery mfg....	-	6	5	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	6	5	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
DOOR COUNTY, WI													
31-33	Manufacturing	-	63	17	2 222	59 679	1 803	3 501	40 797	136 096	127 406	267 470	10 094
333	Machinery mfg	-	6	4	544	18 747	372	772	9 627	46 938	51 572	100 910	5 145
336	Transportation equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	3	2	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	3	2	f	D	D	D	D	D	D	D	D
336611	Ship building & repairing	-	3	2	f	D	D	D	D	D	D	D	D
DOUGLAS COUNTY, WI													
31-33	Manufacturing	-	56	14	1 543	45 405	1 216	2 281	31 894	128 071	365 194	500 171	9 713
DUNN COUNTY, WI													
31-33	Manufacturing	-	60	14	2 910	92 019	2 356	4 817	62 469	518 049	362 795	875 383	36 515
311	Food mfg	-	7	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	3	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	3	1	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, & evaporated dairy product mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	10	3	f	D	D	D	D	D	D	D	3 298
3219	Other wood product mfg ...	-	5	2	f	D	D	D	D	D	D	D	D
32191	Millwork	-	3	2	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg.....	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EAU CLAIRE COUNTY, WI													
31-33	Manufacturing	-	107	37	4 182	110 866	3 311	6 807	75 722	369 899	279 718	651 307	67 589
311	Food mfg.....	-	11	5	f	D	D	D	D	D	D	D	7 654
326	Plastics & rubber products mfg.....	-	9	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	5	2	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
FOND DU LAC COUNTY, WI													
31-33	Manufacturing	-	158	59	11 150	393 225	8 065	16 231	249 144	1 135 105	977 338	2 115 694	68 758
311	Food mfg.....	1	21	13	1 654	44 393	1 330	2 727	31 898	148 849	228 631	376 029	15 033
3118	Bakeries & tortilla mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	16	2	555	14 429	421	942	10 054	31 256	22 671	53 589	2 534
3231	Printing & related support activities.....	-	16	2	555	14 429	421	942	10 054	31 256	22 671	53 589	2 534
32311	Printing.....	-	16	2	555	14 429	421	942	10 054	31 256	22 671	53 589	2 534
331	Primary metal mfg.....	-	5	4	820	28 379	656	1 367	21 997	76 616	52 251	130 368	D
3315	Foundries.....	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	32	11	688	18 667	477	866	11 303	35 288	23 575	59 223	3 284
333	Machinery mfg.....	-	17	7	h	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	-	6	1	f	D	D	D	D	D	D	D	1 710
33351	Metalworking machinery mfg.....	-	6	1	f	D	D	D	D	D	D	D	1 710
333512	Machine tool (metal cutting types) mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg....	-	1	1	g	D	D	D	D	D	D	D	D
335224	Household laundry equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
GRANT COUNTY, WI													
31-33	Manufacturing	-	57	21	2 996	68 470	2 499	4 612	52 153	405 917	312 285	718 099	16 707
335	Electrical equipment, appliance, & component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg.....	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GREEN COUNTY, WI													
31-33	Manufacturing	2	77	29	3 667	93 545	2 936	5 262	64 842	380 165	463 072	840 224	12 516
311	Food mfg	1	24	11	713	16 915	551	1 102	11 394	55 620	202 453	259 995	5 626
333	Machinery mfg	-	9	4	565	16 687	391	726	9 192	39 702	28 303	66 783	531
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	1	1	f	D	D	D	D	D	D	D	D
GREEN LAKE COUNTY, WI													
31-33	Manufacturing	-	61	24	2 383	55 834	1 884	3 592	38 084	153 152	105 513	262 009	7 260
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	2	2	f	D	D	D	D	D	D	D	D
IOWA COUNTY, WI													
31-33	Manufacturing	1	34	7	815	18 350	647	1 181	12 859	53 626	100 680	156 738	2 520
IRON COUNTY, WI													
31-33	Manufacturing	4	12	6	534	10 457	462	789	7 308	28 180	36 936	64 175	1 356
JACKSON COUNTY, WI													
31-33	Manufacturing	-	20	8	810	17 768	608	1 266	12 849	72 486	58 910	134 226	5 778
JEFFERSON COUNTY, WI													
31-33	Manufacturing	1	165	82	12 201	371 799	8 988	18 733	234 104	912 425	1 503 062	2 431 479	70 445
311	Food mfg	1	19	14	2 312	66 245	1 847	3 765	47 793	194 703	418 889	619 285	20 483
3114	Fruit & vegetable preserving & specialty food mfg	9	4	3	532	12 432	451	915	9 506	25 134	47 703	72 935	D
3116	Meat product mfg	-	4	4	1 116	33 933	914	1 893	25 029	102 654	181 993	290 718	8 071
31161	Animal slaughtering & processing	-	4	4	1 116	33 933	914	1 893	25 029	102 654	181 993	290 718	8 071
311612	Meat processed from carcasses	-	3	3	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	15	6	983	29 312	824	1 822	22 827	66 574	38 337	105 116	3 531
3231	Printing & related support activities	-	15	6	983	29 312	824	1 822	22 827	66 574	38 337	105 116	3 531
32311	Printing	-	15	6	983	29 312	824	1 822	22 827	66 574	38 337	105 116	3 531
323110	Commercial lithographic printing ..	-	10	5	878	26 885	726	1 640	20 658	60 765	32 184	93 172	D
326	Plastics & rubber products mfg	-	10	6	568	14 950	448	1 058	11 873	25 773	38 135	64 709	2 093
3261	Plastics product mfg	-	10	6	568	14 950	448	1 058	11 873	25 773	38 135	64 709	2 093
332	Fabricated metal product mfg	-	33	14	1 134	34 763	939	1 859	25 211	78 991	139 035	218 474	12 370
333	Machinery mfg	-	24	16	2 553	83 211	1 843	3 979	55 305	179 519	192 294	366 099	9 194
3331	Agriculture, construction, & mining machinery mfg	-	4	4	699	19 719	510	1 039	11 570	35 908	68 173	107 339	2 615
33311	Agricultural implement mfg	-	4	4	699	19 719	510	1 039	11 570	35 908	68 173	107 339	2 615
333111	Farm machinery & equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	6	5	798	32 039	555	1 435	23 239	68 105	55 368	113 434	3 689
33329	Other industrial machinery mfg	-	5	4	f	D	D	D	D	D	D	D	D
333294	Food product machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	7	5	1 150	35 732	805	1 660	19 708	72 702	83 894	159 163	D
3345	Navigational, measuring, medical, & control instruments mfg	-	6	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	6	4	f	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	JEFFERSON COUNTY, WI—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	4	2	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	4	11	5	1 009	29 994	706	1 691	15 237	86 372	51 188	137 930	3 486
3371	Household & institutional furniture & kitchen cabinet mfg	1	6	2	f	D	D	D	D	D	D	D	887
33712	Household & institutional furniture mfg	1	5	2	f	D	D	D	D	D	D	D	D
	JUNEAU COUNTY, WI												
31-33	Manufacturing	—	47	21	3 503	103 038	2 431	4 849	62 048	247 839	249 491	522 654	15 712
332	Fabricated metal product mfg	—	12	8	1 343	42 292	1 078	2 401	30 330	91 193	62 272	152 738	8 677
3324	Boiler, tank, & shipping container mfg	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	1	1	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	—	1	1	f	D	D	D	D	D	D	D	D
	KENOSHA COUNTY, WI												
31-33	Manufacturing	—	204	82	9 526	396 241	7 325	15 181	281 454	881 557	1 152 037	2 031 016	146 786
311	Food mfg	—	17	9	738	18 193	514	1 144	11 021	64 219	220 449	283 949	6 491
331	Primary metal mfg	—	6	4	732	27 915	532	1 151	17 004	59 328	78 653	140 856	2 862
332	Fabricated metal product mfg	—	47	20	1 881	64 039	1 461	2 592	43 718	157 427	84 287	246 340	6 870
3329	Other fabricated metal product mfg	—	6	3	f	D	D	D	D	D	D	D	2 284
33291	Metal valve mfg	—	3	3	f	D	D	D	D	D	D	D	2 187
332919	Other metal valve & pipe fitting mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	30	8	645	19 989	468	757	11 575	43 063	31 974	74 769	1 443
334	Computer & electronic product mfg	—	12	7	859	25 104	674	1 405	14 716	54 081	59 205	112 314	5 805
3344	Semiconductor & other electronic component mfg	—	4	4	752	20 584	616	1 284	13 105	41 222	49 601	89 750	D
33441	Semiconductor & other electronic component mfg	—	4	4	752	20 584	616	1 284	13 105	41 222	49 601	89 750	D
336	Transportation equipment mfg	—	5	4	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	13	7	512	15 586	405	925	10 095	34 994	21 271	56 435	1 254

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
KEWAUNEE COUNTY, WI													
31-33	Manufacturing	-	45	18	2 359	67 068	1 803	3 241	40 156	148 485	168 957	314 007	11 849
321	Wood product mfg	-	6	3	682	17 976	550	1 012	12 337	38 561	22 022	59 075	2 797
3219	Other wood product mfg ...	-	4	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	D
32311	Printing	-	6	3	f	D	D	D	D	D	D	D	D
323119	Other commercial printing	-	1	1	f	D	D	D	D	D	D	D	D
LA CROSSE COUNTY, WI													
31-33	Manufacturing	-	161	56	10 171	313 696	7 230	14 428	182 701	499 671	878 741	1 382 650	49 814
312	Beverage & tobacco product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	2	2	f	D	D	D	D	D	D	D	D
31212	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	2	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	2	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	11	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	29	11	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	29	11	g	D	D	D	D	D	D	D	D
32311	Printing	-	24	11	g	D	D	D	D	D	D	D	D
323113	Commercial screen printing	-	8	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	23	11	g	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities .	-	3	2	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities	-	3	2	f	D	D	D	D	D	D	D	D
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	19	8	h	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	3	3	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/industrial refrig equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	2	8	3	f	D	D	D	D	D	D	D	1 831
LAFAYETTE COUNTY, WI													
31-33	Manufacturing	1	21	10	661	14 470	603	1 192	11 808	54 087	80 758	134 450	2 261
LANGLADE COUNTY, WI													
31-33	Manufacturing	1	39	16	1 493	35 936	1 232	2 316	25 017	89 530	95 778	184 038	6 185

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LINCOLN COUNTY, WI													
31-33	Manufacturing	-	63	23	3 637	101 175	2 922	5 542	71 861	261 942	270 668	532 381	13 913
321	Wood product mfg	-	18	5	1 354	33 703	1 140	2 219	26 313	85 551	105 454	191 596	2 571
3219	Other wood product mfg ...	-	13	4	g	D	D	D	D	D	D	D	D
32191	Millwork	-	10	4	g	D	D	D	D	D	D	D	2 490
321911	Wood window & door mfg	-	6	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	13	9	904	23 335	660	1 264	14 404	50 794	38 275	89 047	1 899
MANITOWOC COUNTY, WI													
31-33	Manufacturing	-	180	91	13 474	407 244	10 278	19 826	269 073	1 111 156	1 009 433	2 134 067	70 872
311	Food mfg	-	27	11	1 274	36 279	975	1 705	21 735	111 151	260 718	378 486	19 228
326	Plastics & rubber products mfg	1	13	8	567	14 211	464	827	10 430	27 714	41 874	70 734	3 751
331	Primary metal mfg	-	5	3	887	32 074	788	1 814	27 411	55 766	42 128	96 422	1 979
3315	Foundries	-	5	3	887	32 074	788	1 814	27 411	55 766	42 128	96 422	1 979
33152	Nonferrous metal foundries	-	3	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	37	19	3 600	106 601	2 867	5 262	72 272	368 293	162 057	536 772	12 465
3322	Cutlery & handtool mfg	-	3	2	g	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	3	2	g	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	-	2	2	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	16	5	502	14 689	404	679	9 950	39 049	20 540	59 258	4 915
3329	Other fabricated metal product mfg	-	6	4	g	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	3	3	g	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	22	14	2 043	70 180	1 212	2 276	39 582	186 919	171 141	359 439	8 216
3331	Agriculture, construction, & mining machinery mfg	-	6	4	1 021	33 186	595	1 159	19 797	87 760	92 801	177 114	2 992
33312	Construction machinery mfg	-	3	3	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	4	972	29 122	820	1 576	20 365	68 257	53 828	121 851	D
3363	Motor vehicle parts mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	5	648	15 515	540	1 163	11 363	64 039	66 375	129 708	D
3372	Office furniture (including fixtures) mfg	-	4	4	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	4	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	10	5	1 339	41 660	1 018	2 084	27 508	82 911	62 448	145 266	1 729
3391	Medical equipment & supplies mfg	-	2	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	2	2	f	D	D	D	D	D	D	D	D
339111	Laboratory apparatus & furniture mfg	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARATHON COUNTY, WI													
31-33	Manufacturing	-	232	98	16 839	502 563	13 422	26 519	354 835	1 295 226	1 896 838	3 181 899	121 883
311	Food mfg.....	-	28	11	1 501	42 748	1 235	2 700	33 072	132 880	798 375	928 839	15 674
3115	Dairy product mfg.....	-	16	10	1 278	38 114	1 034	2 256	29 703	120 705	745 502	862 822	D
31151	Dairy product (except frozen) mfg.....	-	16	10	1 278	38 114	1 034	2 256	29 703	120 705	745 502	862 822	D
311513	Cheese mfg.....	-	13	8	g	D	D	D	D	D	D	D	13 459
321	Wood product mfg.....	-	34	14	4 027	106 281	3 532	7 270	84 626	267 311	306 421	571 339	18 403
3219	Other wood product mfg....	-	22	13	3 875	103 302	3 395	7 001	81 987	260 931	299 496	558 475	18 070
32191	Millwork.....	-	9	4	3 018	78 671	2 767	5 718	68 348	191 294	192 910	381 478	12 453
321911	Wood window & door mfg.....	-	4	2	h	D	D	D	D	D	D	D	D
32199	All other wood product mfg.....	-	4	4	612	19 675	422	924	10 274	61 474	98 034	160 110	D
321992	Prefabricated wood building mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	9	8	2 731	113 957	2 069	4 289	81 343	332 755	347 754	681 456	44 128
3221	Pulp, paper, & paperboard mills.....	-	3	3	g	D	D	D	D	D	D	D	D
32212	Paper mills.....	-	3	3	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills.....	-	3	3	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	-	6	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	4	4	646	21 190	522	1 062	15 679	68 262	71 522	139 607	3 031
327	Nonmetallic mineral product mfg.....	-	13	6	773	19 390	573	1 174	12 967	42 372	38 980	80 831	4 130
332	Fabricated metal product mfg.....	-	52	25	4 299	126 686	3 235	5 768	80 000	322 510	210 628	525 500	20 878
3322	Cutlery & handtool mfg....	1	3	2	g	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg..	1	3	2	g	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	-	14	9	2 375	79 761	1 649	3 285	46 778	184 316	130 271	312 098	13 306
33232	Ornamental & architectural metal products mfg.....	-	9	5	2 176	73 563	1 494	2 914	42 199	167 197	121 295	286 692	12 978
332321	Metal window & door mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg....	-	5	3	g	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	16	5	523	18 083	398	807	12 967	38 225	21 494	59 504	2 593
335	Electrical equipment, appliance, & component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	8	4	688	20 243	563	1 096	14 750	54 762	39 084	93 026	3 993
337	Furniture & related product mfg.....	-	16	7	631	12 653	495	921	10 331	14 990	26 569	41 684	925
MARINETTE COUNTY, WI													
31-33	Manufacturing	-	82	31	6 766	217 907	5 215	10 791	152 589	489 591	650 702	1 139 092	74 179
321	Wood product mfg.....	-	16	7	611	13 790	523	1 008	10 174	27 335	33 029	58 906	525
322	Paper mfg.....	-	3	3	1 389	63 122	1 011	2 206	45 089	151 289	328 812	481 003	43 695
3221	Pulp, paper, & paperboard mills.....	-	3	3	1 389	63 122	1 011	2 206	45 089	151 289	328 812	481 003	43 695
32212	Paper mills.....	-	3	3	1 389	63 122	1 011	2 206	45 089	151 289	328 812	481 003	43 695
322121	Paper (except newsprint) mills.....	-	3	3	1 389	63 122	1 011	2 206	45 089	151 289	328 812	481 003	43 695
331	Primary metal mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
3315	Foundries.....	-	2	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries..	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	13	5	501	14 909	372	719	9 612	19 509	27 370	46 383	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARINETTE COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	5	4	1 801	50 651	1 431	2 831	36 624	72 763	72 372	145 581	D
3363	Motor vehicle parts mfg ...	—	3	2	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	f	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg	—	1	1	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	—	1	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building ...	—	1	1	f	D	D	D	D	D	D	D	D
336611	Ship building & repairing	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	—	1	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	—	1	1	f	D	D	D	D	D	D	D	D
MARQUETTE COUNTY, WI													
31-33	Manufacturing	—	24	12	996	27 318	815	1 533	16 069	69 423	67 633	135 843	8 593
311	Food mfg	—	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	—	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing	—	1	1	f	D	D	D	D	D	D	D	D
MENOMINEE COUNTY, WI													
31-33	Manufacturing	3	6	4	705	16 601	463	1 081	9 095	23 627	28 880	51 016	2 902
MILWAUKEE COUNTY, WI													
31-33	Manufacturing	—	1 463	556	86 933	3 213 222	60 161	116 114	1 920 798	8 383 164	8 169 378	16 535 524	608 750
311	Food mfg	2	115	43	6 926	178 846	5 038	10 164	116 096	629 910	1 260 354	1 898 765	53 548
3116	Meat product mfg	4	17	9	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	4	17	9	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	6	3	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	—	10	5	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	58	17	1 842	38 891	1 173	2 374	24 547	117 801	74 439	192 380	D
31181	Bread & bakery product mfg	—	54	15	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	14	10	g	D	D	D	D	D	D	D	D
3119	Other food mfg	—	21	9	959	31 584	713	1 357	19 027	164 638	179 791	344 148	15 391
312	Beverage & tobacco product mfg	—	9	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	9	3	g	D	D	D	D	D	D	D	D
31212	Breweries	—	5	2	f	D	D	D	D	D	D	D	D
312120	Breweries	—	5	2	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg ..	—	19	12	1 380	35 948	1 138	2 359	25 475	89 981	162 457	262 709	D
3161	Leather & hide tanning & finishing	—	10	10	g	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing	—	10	10	g	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing	—	10	10	g	D	D	D	D	D	D	D	D
322	Paper mfg	—	24	16	1 955	72 284	1 361	2 948	42 607	177 451	211 505	390 295	19 293
3222	Converted paper product mfg	—	23	15	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	11	8	903	31 596	675	1 491	20 585	61 777	102 932	165 784	10 972
322211	Corrugated & solid fiber box mfg	—	7	5	612	21 419	454	961	13 513	38 971	80 261	118 655	D
32222	Paper bag & coated & treated paper mfg	—	6	5	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	—	4	3	f	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MILWAUKEE COUNTY, WI—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	1	217	52	6 449	169 540	4 879	7 375	101 474	358 800	201 329	559 232	24 871
3231	Printing & related support activities.....	1	217	52	6 449	169 540	4 879	7 375	101 474	358 800	201 329	559 232	24 871
32311	Printing	1	186	42	5 854	149 513	4 437	6 494	89 111	324 392	192 220	515 623	23 069
323110	Commercial lithographic printing ..	1	92	31	4 478	108 005	3 546	4 858	68 840	211 809	126 097	336 447	18 234
32312	Support activities for printing.....	3	31	10	595	20 027	442	881	12 363	34 408	9 109	43 609	1 802
325	Chemical mfg	1	76	40	3 734	147 096	1 777	3 718	59 153	526 696	433 304	957 982	33 684
3251	Basic chemical mfg	—	13	7	g	D	D	D	D	D	D	D	12 555
32519	Other basic organic chemical mfg	—	4	3	973	34 119	354	683	11 317	105 139	24 392	117 150	D
325199	All other basic organic chemical mfg	—	4	3	973	34 119	354	683	11 317	105 139	24 392	117 150	D
3255	Paint, coating, & adhesive mfg	—	15	8	1 144	49 749	511	1 161	18 845	229 388	220 971	448 958	D
32551	Paint & coating mfg	—	7	3	875	39 505	374	867	14 639	198 646	172 943	369 883	D
325510	Paint & coating mfg	—	7	3	875	39 505	374	867	14 639	198 646	172 943	369 883	D
326	Plastics & rubber products mfg	2	45	23	2 198	65 636	1 598	3 258	37 624	157 081	119 014	275 488	16 457
3261	Plastics product mfg	2	42	21	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	32	18	1 670	49 376	1 167	2 433	26 655	116 314	80 906	196 479	D
326199	All other plastics product mfg	2	31	18	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	4	26	11	646	25 021	523	981	18 898	67 185	61 104	128 438	3 219
331	Primary metal mfg	—	41	32	5 653	178 176	4 705	9 616	134 283	391 210	342 354	734 767	29 952
3315	Foundries	—	30	27	5 036	156 260	4 248	8 634	119 663	334 532	212 353	547 461	26 285
33151	Ferrous metal foundries ..	—	18	18	3 683	115 957	3 118	6 221	92 065	244 134	159 440	405 634	19 873
331511	Iron foundries	—	11	11	g	D	D	D	D	D	D	D	D
331512	Steel investment foundries	—	2	2	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	5	5	1 292	36 661	1 135	2 228	29 918	74 718	40 811	117 165	D
33152	Nonferrous metal foundries	—	12	9	1 353	40 303	1 130	2 413	27 598	90 398	52 913	141 827	6 412
332	Fabricated metal product mfg	—	318	106	13 235	462 553	9 955	19 285	306 268	1 039 497	732 433	1 766 759	77 159
3321	Forging & stamping	—	23	18	2 975	118 543	2 252	4 191	84 193	243 134	225 008	463 128	20 082
33211	Forging & stamping	—	23	18	2 975	118 543	2 252	4 191	84 193	243 134	225 008	463 128	20 082
332111	Iron & steel forging	—	5	4	g	D	D	D	D	D	D	D	D
332116	Metal stamping	—	17	13	g	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	—	12	4	500	17 567	409	774	12 746	41 197	19 163	59 866	2 476
33221	Cutlery & handtool mfg	—	12	4	500	17 567	409	774	12 746	41 197	19 163	59 866	2 476
332212	Hand & edge tool mfg	—	12	4	500	17 567	409	774	12 746	41 197	19 163	59 866	2 476
3323	Architectural & structural metals mfg	—	43	14	1 666	56 516	1 230	2 610	37 346	111 787	108 305	219 873	9 699
33231	Plate work & fabricated structural product mfg ..	—	20	7	665	20 516	507	1 017	14 278	49 812	69 340	119 074	2 452
33232	Ornamental & architectural metal products mfg	—	23	7	1 001	36 000	723	1 593	23 068	61 975	38 965	100 799	7 247
332322	Sheet metal work mfg ..	—	13	3	744	27 067	555	1 253	18 474	44 696	28 001	72 101	D
3325	Hardware mfg	2	7	4	2 087	72 031	1 685	2 686	48 592	191 022	93 648	281 494	D
33251	Hardware mfg	2	7	4	2 087	72 031	1 685	2 686	48 592	191 022	93 648	281 494	D
332510	Hardware mfg	2	7	4	2 087	72 031	1 685	2 686	48 592	191 022	93 648	281 494	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	116	23	2 404	78 096	1 783	3 651	49 535	156 951	88 116	243 355	16 313
33271	Machine shops	—	95	17	1 655	52 926	1 204	2 421	33 787	103 048	51 789	153 498	7 967
332710	Machine shops	—	95	17	1 655	52 926	1 204	2 421	33 787	103 048	51 789	153 498	7 967
33272	Turned product & screw, nut, & bolt mfg	—	21	6	749	25 170	579	1 230	15 748	53 903	36 327	89 857	8 346
332721	Precision turned product mfg	—	17	5	645	21 282	494	1 061	12 894	45 977	20 272	65 986	D
3328	Coating, engraving, heat treating, & allied activities ..	—	67	23	1 563	42 201	1 196	2 332	26 895	89 339	29 260	118 540	7 172
33281	Coating, engraving, heat treating, & allied activities	—	67	23	1 563	42 201	1 196	2 332	26 895	89 339	29 260	118 540	7 172
332813	Electroplating, plating, polishing, anodizing, & coloring	—	37	11	943	24 044	739	1 418	15 120	45 354	19 135	64 499	3 179

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MILWAUKEE COUNTY, WI—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	—	33	13	1 461	54 476	961	2 057	30 882	151 644	95 130	254 324	5 937
33291	Metal valve mfg.....	—	6	5	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg...	—	4	4	746	31 220	457	1 022	16 512	100 547	48 583	155 857	D
33299	All other fabricated metal product mfg.....	—	27	8	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	185	87	16 648	737 739	10 107	20 830	408 141	1 688 616	1 257 857	2 911 701	98 940
3331	Agriculture, construction, & mining machinery mfg....	—	13	10	h	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	—	9	8	2 732	131 680	1 466	2 978	75 558	336 375	284 673	645 196	16 108
333120	Construction machinery mfg.....	—	9	8	2 732	131 680	1 466	2 978	75 558	336 375	284 673	645 196	16 108
3332	Industrial machinery mfg ..	—	19	7	522	23 328	331	702	13 295	54 450	37 342	86 603	1 795
33329	Other industrial machinery mfg.....	—	19	7	522	23 328	331	702	13 295	54 450	37 342	86 603	1 795
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	7	4	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	7	4	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	—	6	4	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	1	68	24	1 805	77 037	1 315	2 881	53 781	142 622	77 579	221 427	9 824
33351	Metalworking machinery mfg.....	1	68	24	1 805	77 037	1 315	2 881	53 781	142 622	77 579	221 427	9 824
333511	Industrial mold mfg....	—	19	7	511	23 972	411	972	18 320	44 458	14 966	60 069	4 355
333514	Special die & tool, die set, jig, & fixture mfg ..	—	30	8	785	31 157	575	1 206	23 305	64 111	29 115	92 922	3 540
3336	Engine, turbine, & power transmission equipment mfg.....	—	18	11	6 856	305 776	4 374	8 862	172 577	721 554	445 156	1 126 179	50 726
33361	Engine, turbine, & power transmission equipment mfg.....	—	18	11	6 856	305 776	4 374	8 862	172 577	721 554	445 156	1 126 179	50 726
333611	Turbine & turbine generator set unit mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg....	—	7	3	1 536	68 207	964	1 668	37 096	165 702	78 011	241 752	D
333613	Mechanical power transmission equipment mfg.....	—	6	4	736	27 561	570	1 077	20 475	71 831	33 890	104 792	D
333618	Other engine equipment mfg.....	—	4	3	h	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	—	49	26	3 377	147 081	1 811	3 697	65 482	296 115	303 034	589 298	13 932
33392	Material handling equipment mfg.....	—	12	7	1 058	49 411	540	1 103	21 430	136 711	130 651	254 433	D
333923	Overhead traveling crane, hoist, & monorail system mfg ..	—	6	5	915	43 145	455	928	18 686	99 858	78 412	164 710	D
33399	All other general-purpose machinery mfg.....	—	32	17	2 241	95 487	1 223	2 517	43 058	156 484	167 544	326 897	10 341
333993	Packaging machinery mfg.....	—	8	3	809	35 350	449	906	15 900	51 490	87 473	138 750	D
334	Computer & electronic product mfg.....	—	56	23	4 927	229 572	2 451	4 901	80 059	592 718	370 441	957 415	33 290
3344	Semiconductor & other electronic component mfg.....	—	19	12	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	—	19	12	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	—	23	9	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	—	23	9	h	D	D	D	D	D	D	D	D
334510	Electromedical & electrotherapeutic apparatus mfg.....	—	3	1	g	D	D	D	D	D	D	D	D
334517	Irradiation apparatus mfg.....	—	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MILWAUKEE COUNTY, WI—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	40	23	8 805	323 480	6 732	11 116	197 888	909 063	946 404	1 844 706	61 673
3353	Electrical equipment mfg ..	-	23	14	7 128	272 944	5 543	8 619	169 337	716 318	820 560	1 528 362	50 261
33531	Electrical equipment mfg	-	23	14	7 128	272 944	5 543	8 619	169 337	716 318	820 560	1 528 362	50 261
335312	Motor & generator mfg	-	4	3	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	3	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	12	8	5 653	211 617	4 502	6 394	129 725	568 232	718 351	1 270 921	45 404
3359	Other electrical equipment & component mfg	-	11	6	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	5	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	34	18	7 013	332 335	4 708	9 645	232 080	1 054 194	1 460 430	2 535 512	107 030
3363	Motor vehicle parts mfg ...	-	22	12	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	6	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	6	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	6	4	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	6	4	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	3	2	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	3	2	h	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	2	2	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	71	12	1 007	31 778	764	1 455	20 521	60 939	47 322	108 544	3 700
3371	Household & institutional furniture & kitchen cabinet mfg	1	55	7	623	19 539	480	910	12 919	33 125	27 028	60 640	D
339	Miscellaneous mfg	-	120	35	3 969	122 362	2 600	4 818	67 730	265 624	220 774	488 099	19 176
3399	Other miscellaneous mfg ...	-	77	28	3 518	108 199	2 386	4 415	62 735	235 269	207 743	443 672	18 389
33995	Sign mfg	-	35	12	1 442	49 661	983	1 772	27 523	88 882	89 055	180 868	11 745
339950	Sign mfg	-	35	12	1 442	49 661	983	1 772	27 523	88 882	89 055	180 868	11 745
33999	All other miscellaneous mfg	-	17	7	1 339	38 125	1 010	1 970	27 203	104 282	100 877	203 401	5 152
339991	Gasket, packing, & sealing device mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg	-	3	3	f	D	D	D	D	D	D	D	D
	MONROE COUNTY, WI												
31-33	Manufacturing	1	58	20	3 397	79 905	2 601	4 912	54 292	291 852	469 797	745 019	8 326
311	Food mfg	4	7	5	505	11 624	402	860	8 821	68 960	172 197	231 141	2 497
333	Machinery mfg	-	9	3	f	D	D	D	D	D	D	D	1 394
3331	Agriculture, construction, & mining machinery mfg	-	3	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	3	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	3	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
	OCONTO COUNTY, WI												
31-33	Manufacturing	-	61	26	2 445	56 624	2 048	4 163	36 810	135 450	163 740	297 680	27 246
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ONEIDA COUNTY, WI													
31-33	Manufacturing	-	68	15	2 526	78 338	2 163	4 763	62 490	182 764	216 338	395 334	16 060
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	6	3	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	5	2	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	-	5	2	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg	-	1	1	f	D	D	D	D	D	D	D	D
OUTAGAMIE COUNTY, WI													
31-33	Manufacturing	-	303	127	21 410	750 742	15 718	32 049	490 768	2 319 323	2 980 563	5 315 387	172 084
311	Food mfg	-	33	20	5 258	135 117	4 258	8 056	103 000	466 614	855 130	1 330 936	28 281
3114	Fruit & vegetable preserving & specialty food mfg	-	8	7	h	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	3	3	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	3	3	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	8	7	767	24 830	570	1 288	17 234	64 255	271 274	345 787	D
31151	Dairy product (except frozen) mfg	-	8	7	767	24 830	570	1 288	17 234	64 255	271 274	345 787	D
311513	Cheese mfg	-	6	6	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	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 & tortilla mfg	-	10	4	f	D	D	D	D	D	D	D	D
313	Textile mills	-	4	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	3	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	26	22	i	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	6	6	h	D	D	D	D	D	D	D	D
32212	Paper mills	-	5	5	3 295	153 959	2 537	5 757	110 838	561 714	631 251	1 206 159	D
322121	Paper (except newsprint) mills	-	5	5	3 295	153 959	2 537	5 757	110 838	561 714	631 251	1 206 159	D
3222	Converted paper product mfg	-	20	16	h	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	4	4	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	4	4	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	11	7	f	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg	-	9	6	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	39	8	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	2	39	8	f	D	D	D	D	D	D	D	D
32311	Printing	2	36	7	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	11	7	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	9	6	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	4	4	g	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	50	20	1 360	48 229	1 016	2 102	34 084	108 805	76 248	187 822	8 967
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	23	8	509	19 223	361	806	13 800	46 284	16 699	64 366	4 443
33271	Machine shops	-	23	8	509	19 223	361	806	13 800	46 284	16 699	64 366	4 443
332710	Machine shops	-	23	8	509	19 223	361	806	13 800	46 284	16 699	64 366	4 443

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
OUTAGAMIE COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	—	36	16	3 278	135 851	1 672	3 201	58 243	400 618	416 966	816 562	18 757
3332	Industrial machinery mfg ..	—	18	7	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	—	16	6	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	—	12	6	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	6	5	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	—	3	2	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	5	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	10	3	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	—	8	2	f	D	D	D	D	D	D	D	D
OZAUKEE COUNTY, WI													
31-33	Manufacturing	—	242	100	13 420	485 765	9 040	18 372	267 203	1 463 770	1 296 248	2 763 146	87 389
325	Chemical mfg	—	11	6	817	38 582	320	693	8 687	190 810	81 505	286 665	4 061
326	Plastics & rubber products mfg	—	11	7	1 100	29 623	868	1 825	18 652	75 705	80 745	153 847	7 214
3261	Plastics product mfg	—	10	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	9	6	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	9	6	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	10	8	1 335	54 723	1 055	2 456	41 646	225 697	157 053	380 484	11 905
3315	Foundries	—	8	6	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	5	4	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	3	53	23	1 757	67 916	1 316	2 641	39 613	182 742	129 290	310 354	13 455
3321	Forging & stamping	—	12	8	528	19 224	372	749	9 981	49 219	41 300	90 585	3 547
33211	Forging & stamping	—	12	8	528	19 224	372	749	9 981	49 219	41 300	90 585	3 547
332116	Metal stamping	—	11	8	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	42	19	3 338	127 082	2 233	4 674	73 124	370 540	340 755	703 226	20 197
3331	Agriculture, construction, & mining machinery mfg	1	6	5	1 797	70 538	1 154	2 440	39 687	246 309	255 085	495 371	13 646
33311	Agricultural implement mfg	—	3	2	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	2	3	3	g	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	2	3	3	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	19	7	681	30 434	510	1 179	20 040	62 508	18 909	81 286	4 437
33351	Metalworking machinery mfg	1	19	7	681	30 434	510	1 179	20 040	62 508	18 909	81 286	4 437
334	Computer & electronic product mfg	—	15	7	f	D	D	D	D	D	D	D	1 735
335	Electrical equipment, appliance, & component mfg	—	14	7	2 038	74 024	1 156	1 897	33 397	160 858	229 705	397 514	9 900
3353	Electrical equipment mfg ..	—	6	3	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	6	3	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	—	3	1	g	D	D	D	D	D	D	D	D
PIERCE COUNTY, WI													
31-33	Manufacturing	—	40	12	942	24 703	715	1 411	16 444	92 522	124 050	216 678	10 281

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
POLK COUNTY, WI													
31-33	Manufacturing	1	95	40	3 912	90 664	3 010	5 366	59 203	270 467	361 085	628 141	23 425
326	Plastics & rubber products mfg	-	13	9	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	12	9	f	D	D	D	D	D	D	D	2 277
32619	Other plastics product mfg	-	11	8	808	16 599	607	1 003	12 115	48 072	26 204	74 269	2 277
326199	All other plastics product mfg	-	11	8	808	16 599	607	1 003	12 115	48 072	26 204	74 269	2 277
332	Fabricated metal product mfg	1	21	8	600	15 022	449	832	8 975	36 318	14 944	50 092	3 162
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
PORTAGE COUNTY, WI													
31-33	Manufacturing	2	83	30	5 534	178 274	4 609	8 898	133 462	683 604	584 248	1 265 822	95 666
311	Food mfg	6	12	7	1 932	47 412	1 725	3 082	38 856	252 122	171 621	423 486	25 194
3114	Fruit & vegetable preserving & specialty food mfg	7	7	6	1 838	45 081	1 657	2 946	37 167	246 787	162 259	407 954	D
31141	Frozen food mfg	9	3	3	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	4	3	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	3	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	3	3	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	3	3	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	3	3	g	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	9	5	595	23 243	473	1 015	14 826	42 093	32 387	73 971	5 513
3231	Printing & related support activities.....	-	9	5	595	23 243	473	1 015	14 826	42 093	32 387	73 971	5 513
32311	Printing	-	7	4	f	D	D	D	D	D	D	D	D
PRICE COUNTY, WI													
31-33	Manufacturing	-	46	18	2 957	91 675	2 168	12 175	59 466	232 835	218 716	449 617	13 252
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	3	1 308	46 021	826	1 763	25 909	101 248	108 939	207 757	3 650
3332	Industrial machinery mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RACINE COUNTY, WI													
31-33	Manufacturing	—	379	141	18 869	664 097	13 445	26 370	393 033	3 236 876	1 989 171	5 229 538	192 568
311	Food mfg	—	16	7	1 032	26 072	852	1 600	16 326	310 862	195 539	505 675	9 676
3113	Sugar & confectionery product mfg	—	3	1	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	—	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	29	7	882	24 118	669	1 273	15 349	45 624	29 602	73 209	2 479
3231	Printing & related support activities	—	29	7	882	24 118	669	1 273	15 349	45 624	29 602	73 209	2 479
32311	Printing	—	28	7	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	7	5	g	D	D	D	D	D	D	D	33 448
3256	Soap, cleaning compound, & toilet preparation mfg	—	3	3	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	—	3	3	g	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg	—	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	16	12	994	31 031	770	1 547	21 392	75 996	54 386	130 200	4 133
3262	Rubber product mfg	2	5	5	626	20 892	473	982	14 972	48 126	39 505	87 572	2 564
32629	Other rubber product mfg	2	5	5	626	20 892	473	982	14 972	48 126	39 505	87 572	2 564
327	Nonmetallic mineral product mfg	—	13	3	642	24 935	531	1 018	18 815	81 400	35 646	118 343	D
331	Primary metal mfg	4	15	9	1 621	52 396	1 247	3 064	35 692	119 166	120 641	238 687	12 895
3315	Foundries	5	12	7	1 545	48 533	1 188	2 935	33 366	105 042	74 080	179 387	11 241
33152	Nonferrous metal foundries	7	9	5	1 124	34 787	851	2 283	23 160	75 931	55 261	131 803	D
331521	Aluminum die-casting foundries	8	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	103	42	3 568	115 749	2 567	5 095	68 900	270 983	207 279	477 851	18 717
3321	Forging & stamping	—	10	7	507	19 177	351	689	11 004	50 189	46 152	95 450	3 180
33211	Forging & stamping	—	10	7	507	19 177	351	689	11 004	50 189	46 152	95 450	3 180
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	48	16	1 379	40 085	1 056	2 142	25 914	93 473	53 440	145 282	7 226
33271	Machine shops	—	37	12	1 104	32 115	823	1 697	20 633	75 574	47 512	121 310	4 797
332710	Machine shops	—	37	12	1 104	32 115	823	1 697	20 633	75 574	47 512	121 310	4 797
3329	Other fabricated metal product mfg	—	11	6	608	22 940	368	752	11 447	53 872	46 867	103 634	4 267
333	Machinery mfg	—	71	20	3 313	133 696	2 253	4 423	83 528	418 153	457 395	861 718	46 103
3331	Agriculture, construction, & mining machinery mfg	—	11	6	1 279	48 481	872	1 755	28 807	230 281	324 859	543 893	D
33311	Agricultural implement mfg	—	5	4	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	—	2	2	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	5	3	1 025	48 742	715	1 299	32 302	126 059	86 520	209 491	4 707
33361	Engine, turbine, & power transmission equipment mfg	—	5	3	1 025	48 742	715	1 299	32 302	126 059	86 520	209 491	4 707
333613	Mechanical power transmission equipment mfg	—	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	23	10	2 710	89 093	1 962	3 475	47 193	477 787	197 262	677 347	17 178
3352	Household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	2	20	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	2	20	7	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	10	6	939	29 240	783	1 648	21 988	67 528	68 400	137 384	4 376
339	Miscellaneous mfg	—	22	8	743	21 793	483	896	9 727	42 332	32 716	74 302	7 280

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RICHLAND COUNTY, WI													
31-33	Manufacturing	-	26	9	1 851	52 689	1 464	3 228	32 849	140 126	234 596	373 336	7 110
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	1	1	f	D	D	D	D	D	D	D	D
ROCK COUNTY, WI													
31-33	Manufacturing	-	234	81	19 547	785 294	15 128	32 406	553 483	3 905 863	6 220 648	10 105 609	210 195
311	Food mfg	-	13	8	1 334	47 594	1 101	2 527	31 471	355 527	296 037	649 612	D
3119	Other food mfg	-	3	3	f	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	2	2	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	10	4	f	D	D	D	D	D	D	D	3 742
3261	Plastics product mfg	-	10	4	f	D	D	D	D	D	D	D	3 742
32619	Other plastics product mfg	-	6	2	f	D	D	D	D	D	D	D	884
326199	All other plastics product mfg	-	6	2	f	D	D	D	D	D	D	D	884
331	Primary metal mfg	-	6	6	1 074	40 556	770	1 914	26 314	98 179	102 982	196 245	6 667
3315	Foundries	-	4	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	50	14	1 499	54 642	1 109	2 214	34 385	126 436	126 876	252 754	11 997
333	Machinery mfg	-	29	13	3 123	139 642	1 850	3 491	70 136	235 879	338 331	577 317	20 537
3332	Industrial machinery mfg	-	7	3	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	5	2	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	9	4	584	29 424	350	660	13 696	27 928	50 424	100 004	2 293
33351	Metalworking machinery mfg	-	9	4	584	29 424	350	660	13 696	27 928	50 424	100 004	2 293
3336	Engine, turbine, & power transmission equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	13	6	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	-	6	4	2 215	65 064	1 837	4 034	47 798	193 971	264 653	455 091	9 647
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	4	744	24 940	572	1 256	16 451	80 870	60 282	141 063	2 618
339	Miscellaneous mfg	-	20	2	1 126	33 145	760	1 505	19 844	106 013	106 658	200 896	6 026
3399	Other miscellaneous mfg	-	10	2	g	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg	-	4	1	f	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg	-	4	1	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	2	1	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RUSK COUNTY, WI													
31-33	Manufacturing	-	30	13	1 722	40 962	1 392	2 703	30 865	84 226	118 665	203 085	9 720
321	Wood product mfg	-	4	3	1 013	24 727	896	1 766	20 516	43 706	57 018	100 399	6 340
3219	Other wood product mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
32191	Millwork	-	3	2	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	2	2	f	D	D	D	D	D	D	D	D
ST. CROIX COUNTY, WI													
31-33	Manufacturing	-	150	51	5 867	174 338	4 387	8 245	106 837	399 662	425 348	826 999	35 000
326	Plastics & rubber products mfg	-	9	5	679	16 451	553	873	10 249	31 793	35 683	67 582	3 479
3261	Plastics product mfg	-	8	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	6	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	35	11	1 137	35 673	822	1 517	21 379	72 187	76 061	146 262	6 901
333	Machinery mfg	-	25	11	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	4	3	768	24 796	603	1 093	16 246	86 810	51 745	138 116	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	4	3	768	24 796	603	1 093	16 246	86 810	51 745	138 116	D
3339	Other general-purpose machinery mfg	1	6	1	f	D	D	D	D	D	D	D	1 571
33399	All other general-purpose machinery mfg	1	5	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	2	2	f	D	D	D	D	D	D	D	D
SAUK COUNTY, WI													
31-33	Manufacturing	-	114	50	6 570	180 827	5 245	10 618	130 040	511 318	603 512	1 121 234	58 547
326	Plastics & rubber products mfg	-	12	9	1 384	33 394	1 118	2 543	24 501	127 384	67 014	196 171	15 671
3261	Plastics product mfg	-	9	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	4	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	3	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	8	4	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	21	9	1 225	33 878	929	1 822	22 882	86 327	116 176	206 292	4 781
SAWYER COUNTY, WI													
31-33	Manufacturing	-	39	11	859	22 427	695	1 345	16 159	60 715	75 922	137 307	7 892
321	Wood product mfg	-	8	5	500	13 975	439	907	11 022	33 015	55 065	88 297	D
SHAWANO COUNTY, WI													
31-33	Manufacturing	1	67	23	1 985	51 044	1 539	2 935	33 842	131 118	200 115	330 261	12 725

Table 3. Industry Statistics for Counties: 1997—Con.

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SHEBOYGAN COUNTY, WI												
31-33	Manufacturing	1	239	117	20 047	628 324	14 618	28 148	383 824	2 034 961	2 203 789	4 252 678	146 005
311	Food mfg	3	31	16	3 017	92 756	1 944	3 753	45 994	381 960	705 114	1 086 904	25 490
3115	Dairy product mfg	3	12	8	1 823	59 887	1 099	2 150	28 639	273 334	526 869	800 266	14 871
31151	Dairy product (except frozen) mfg	3	11	8	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	4	10	7	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	1	4	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	1	4	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	1	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	10	5	625	22 404	499	1 009	12 488	50 390	62 846	113 181	4 523
3222	Converted paper product mfg	—	9	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	20	7	811	23 198	635	1 245	15 617	43 591	41 937	84 848	2 639
3231	Printing & related support activities	1	20	7	811	23 198	635	1 245	15 617	43 591	41 937	84 848	2 639
32311	Printing	1	17	7	796	22 767	622	1 224	15 337	42 585	41 676	83 582	2 587
323110	Commercial lithographic printing	—	8	3	527	15 777	416	805	10 731	27 914	31 338	58 916	1 884
325	Chemical mfg	—	7	5	655	22 495	436	861	13 504	71 809	93 408	166 816	D
326	Plastics & rubber products mfg	—	19	15	2 427	88 285	1 890	3 278	61 437	222 269	161 882	390 170	24 114
3261	Plastics product mfg	—	19	15	2 427	88 285	1 890	3 278	61 437	222 269	161 882	390 170	24 114
32619	Other plastics product mfg	—	12	9	1 957	73 432	1 506	2 459	51 820	190 829	126 225	323 729	20 905
326199	All other plastics product mfg	—	12	9	1 957	73 432	1 506	2 459	51 820	190 829	126 225	323 729	20 905
327	Nonmetallic mineral product mfg	—	12	7	853	29 468	695	1 462	23 337	78 740	34 947	120 708	2 342
3271	Clay product & refractory mfg	—	1	1	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg	—	1	1	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	9	7	1 421	45 548	1 219	2 387	34 292	111 321	189 243	311 846	31 503
3315	Foundries	—	8	7	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	6	5	g	D	D	D	D	D	D	D	29 860
331524	Aluminum foundries (except die-casting)	—	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	47	12	3 221	91 671	2 508	5 117	56 899	496 194	191 855	691 634	18 484
3322	Cutlery & handtool mfg	—	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	—	1	1	f	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	—	1	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	8	3	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	8	3	g	D	D	D	D	D	D	D	D
332998	Enameled iron & metal sanitary ware mfg	—	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	1	33	12	2 938	90 825	1 785	3 515	47 562	287 486	314 823	595 839	18 501
3336	Engine, turbine, & power transmission equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	3	9	4	1 291	43 887	685	1 234	18 704	104 834	100 419	206 903	6 089
33399	All other general-purpose machinery mfg	—	7	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SHEBOYGAN COUNTY, WI—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	-	13	10	1 332	39 783	1 076	2 221	22 996	86 484	60 199	142 070	2 897
3371	Household & institutional furniture & kitchen cabinet mfg	-	6	4	892	23 948	763	1 564	15 339	55 755	39 622	90 517	2 124
33712	Household & institutional furniture mfg	-	5	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	12	5	550	16 351	396	754	8 193	49 083	13 790	62 544	1 068
	TAYLOR COUNTY, WI												
31-33	Manufacturing	-	43	16	2 987	83 762	2 383	4 511	59 433	178 327	413 523	592 711	7 238
311	Food mfg	-	9	3	562	16 743	477	976	12 470	34 830	125 058	160 076	4 500
321	Wood product mfg	-	11	5	1 680	46 467	1 246	2 262	29 701	103 341	258 753	362 891	1 116
3219	Other wood product mfg ...	-	9	5	g	D	D	D	D	D	D	D	D
32191	Millwork	-	7	5	g	D	D	D	D	D	D	D	856
321911	Wood window & door mfg	-	5	3	g	D	D	D	D	D	D	D	D
	TREMPEALEAU COUNTY, WI												
31-33	Manufacturing	-	62	24	4 678	121 788	3 782	8 533	76 000	258 343	545 742	799 919	22 657
311	Food mfg	-	15	5	1 175	20 434	1 003	1 491	15 554	48 462	220 742	269 305	11 438
3115	Dairy product mfg	-	4	3	520	6 995	438	468	5 050	24 964	156 863	181 886	D
31151	Dairy product (except frozen) mfg	-	4	3	520	6 995	438	468	5 050	24 964	156 863	181 886	D
311513	Cheese mfg	-	4	3	520	6 995	438	468	5 050	24 964	156 863	181 886	D
3116	Meat product mfg	-	7	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	7	2	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	2	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	4	1	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	3	1	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	3	1	g	D	D	D	D	D	D	D	D
	VERNON COUNTY, WI												
31-33	Manufacturing	1	37	12	970	20 727	823	1 439	15 424	86 723	81 395	168 127	6 716
	WALWORTH COUNTY, WI												
31-33	Manufacturing	1	218	91	10 377	311 668	7 685	15 392	185 538	770 969	725 783	1 496 166	57 677
311	Food mfg	2	13	5	779	22 399	623	1 259	16 667	125 013	70 336	193 048	D
326	Plastics & rubber products mfg	2	18	12	817	21 830	698	1 331	15 121	55 850	49 230	105 428	4 745
3261	Plastics product mfg	1	16	11	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	9	7	f	D	D	D	D	D	D	D	2 234
326199	All other plastics product mfg	2	9	7	f	D	D	D	D	D	D	D	2 234
331	Primary metal mfg	-	7	4	559	19 272	436	1 006	13 406	39 465	25 401	66 347	3 765
332	Fabricated metal product mfg	-	47	16	1 442	43 905	1 170	2 434	30 359	94 031	57 638	151 467	7 521
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	25	8	735	20 853	624	1 246	16 048	50 501	28 551	79 065	4 088
33272	Turned product & screw, nut, & bolt mfg	-	10	5	515	15 186	446	915	11 916	35 071	12 072	47 375	2 761
333	Machinery mfg	-	21	10	1 700	61 908	962	1 960	27 295	200 806	178 489	375 143	10 572
3339	Other general-purpose machinery mfg	-	7	6	1 334	49 251	718	1 541	21 418	143 638	136 593	277 547	8 686
33391	Pump & compressor mfg	-	2	2	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	7	4	547	13 294	384	767	6 693	28 964	28 415	58 132	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	WALWORTH COUNTY, WI—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	3	5	4	694	14 926	516	1 065	8 296	14 060	25 364	38 929	1 192
3353	Electrical equipment mfg ..	4	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	4	3	2	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	10	6	1 089	32 945	750	1 283	15 493	64 322	126 127	193 817	5 306
339	Miscellaneous mfg	1	14	6	970	29 776	766	1 528	18 977	56 348	62 542	119 356	1 971
3399	Other miscellaneous mfg ..	1	11	6	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	1	5	4	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	—	3	3	f	D	D	D	D	D	D	D	D
31-33	WASHBURN COUNTY, WI		35	7	793	17 136	676	1 160	11 828	39 705	57 018	94 662	2 072
31-33	Manufacturing												
31-33	WASHINGTON COUNTY, WI		321	126	15 660	499 184	11 444	22 610	307 886	1 234 272	1 138 466	2 360 235	94 701
311	Food mfg	—	10	5	618	22 072	430	865	11 520	96 267	190 556	283 854	7 846
316	Leather & allied product mfg .	—	5	3	f	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	—	4	2	f	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	—	4	2	f	D	D	D	D	D	D	D	D
316993	Personal leather good (except women's handbag & purse) mfg	—	3	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	7	6	512	17 920	381	890	10 718	40 797	55 458	96 963	2 672
3222	Converted paper product mfg	—	7	6	512	17 920	381	890	10 718	40 797	55 458	96 963	2 672
323	Printing & related support activities	—	22	6	g	D	D	D	D	D	D	D	7 256
3231	Printing & related support activities	—	22	6	g	D	D	D	D	D	D	D	7 256
32311	Printing	—	20	6	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	8	2	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing	—	5	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	90	34	3 793	109 768	2 886	5 634	71 932	252 228	191 313	434 498	23 853
3322	Cutlery & handtool mfg	—	3	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	—	3	1	f	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	—	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	11	8	834	25 564	533	1 038	13 809	68 320	53 282	114 309	2 627
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	43	12	857	24 420	726	1 298	18 037	47 571	13 504	60 589	6 018
33271	Machine shops	1	38	10	686	19 057	589	1 012	14 120	39 086	8 827	47 609	4 710
332710	Machine shops	1	38	10	686	19 057	589	1 012	14 120	39 086	8 827	47 609	4 710
3329	Other fabricated metal product mfg	—	10	4	674	20 438	555	1 140	15 167	55 396	55 332	109 085	6 461
33299	All other fabricated metal product mfg	—	9	4	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	6	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	79	28	2 639	105 026	1 720	3 549	59 996	203 553	129 122	331 977	26 926
3331	Agriculture, construction, & mining machinery mfg	—	3	2	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	—	44	15	946	44 749	777	1 733	34 071	93 204	37 280	130 297	14 652
33351	Metalworking machinery mfg	—	44	15	946	44 749	777	1 733	34 071	93 204	37 280	130 297	14 652

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WASHINGTON COUNTY, WI—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	—	6	5	2 053	71 121	1 472	2 942	41 852	219 215	213 226	433 204	8 122
3352	Household appliance mfg ..	—	2	2	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	—	2	2	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	10	5	703	21 720	563	1 063	15 220	49 238	53 057	103 359	5 421
3363	Motor vehicle parts mfg ...	—	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	22	3	541	16 340	332	591	7 928	45 912	35 132	80 357	2 071
	WAUKESHA COUNTY, WI												
31-33	Manufacturing	1	1 148	464	49 130	1 760 273	34 599	70 480	1 051 082	4 944 772	4 450 884	9 434 623	305 133
311	Food mfg	1	43	20	3 506	102 835	2 558	5 021	62 380	452 533	681 513	1 152 125	19 956
3113	Sugar & confectionery product mfg	—	4	3	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	5	4	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	1	3	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	2	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	4	3	536	18 930	347	777	11 930	42 352	195 364	237 274	2 296
31151	Dairy product (except frozen) mfg	—	3	3	f	D	D	D	D	D	D	D	2 296
322	Paper mfg	1	14	10	952	36 371	713	1 426	22 535	69 791	68 474	137 854	8 520
3222	Converted paper product mfg	1	14	10	952	36 371	713	1 426	22 535	69 791	68 474	137 854	8 520
32223	Stationery product mfg ..	—	4	3	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	144	60	6 886	240 112	5 478	11 329	178 048	516 855	294 178	801 942	34 102
3231	Printing & related support activities	1	144	60	6 886	240 112	5 478	11 329	178 048	516 855	294 178	801 942	34 102
32311	Printing	1	117	45	6 016	205 655	4 830	9 984	155 508	450 304	278 063	719 337	28 390
323110	Commercial lithographic printing ...	1	55	25	4 679	164 356	3 901	8 263	130 484	366 297	220 990	577 969	23 673
32312	Support activities for printing	—	27	15	870	34 457	648	1 345	22 540	66 551	16 115	82 605	5 712
323122	Prepress services	1	21	12	611	25 316	440	896	16 280	48 527	9 532	57 767	5 182
325	Chemical mfg	4	43	14	847	31 932	500	999	13 630	97 626	173 141	268 868	5 992
326	Plastics & rubber products mfg	—	63	32	3 660	112 586	2 788	5 630	70 759	283 062	220 699	503 707	32 390
3261	Plastics product mfg	—	60	29	3 325	102 787	2 530	5 147	64 933	262 220	211 130	473 108	31 699
32611	Unsupported plastics film, sheet, & bag mfg ..	1	10	4	554	19 725	393	739	11 318	46 293	51 744	97 563	D
32619	Other plastics product mfg	—	41	21	2 486	75 297	1 939	4 054	49 108	198 692	140 389	338 934	25 449
326199	All other plastics product mfg	—	39	20	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	31	10	650	25 608	490	1 062	16 364	64 518	53 008	117 158	5 281
331	Primary metal mfg	—	22	12	2 016	78 340	1 467	3 047	48 103	187 914	148 612	336 271	13 982
3315	Foundries	—	17	11	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	—	7	6	g	D	D	D	D	D	D	D	D
331511	Iron foundries	—	1	1	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	6	5	1 144	47 578	740	1 548	25 560	128 516	68 581	197 640	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WAUKESHA COUNTY, WI—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	313	117	9 396	334 296	6 955	14 448	209 153	774 424	519 972	1 294 290	62 173
3321	Forging & stamping	-	31	15	1 045	32 761	778	1 486	20 456	89 509	60 886	148 902	7 923
33211	Forging & stamping	-	31	15	1 045	32 761	778	1 486	20 456	89 509	60 886	148 902	7 923
332116	Metal stamping	-	24	12	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	41	20	1 436	50 908	1 021	2 039	29 744	100 148	81 454	182 390	11 366
33231	Plate work & fabricated structural product mfg ..	2	24	9	506	18 500	364	734	9 811	33 289	27 168	60 801	2 333
33232	Ornamental & architectural metal products mfg	-	17	11	930	32 408	657	1 305	19 933	66 859	54 286	121 589	9 033
332322	Sheet metal work mfg ..	-	9	8	647	23 029	504	975	15 756	45 269	35 848	82 205	8 121
3324	Boiler, tank, & shipping container mfg	-	12	7	679	22 509	505	1 107	16 374	59 837	68 988	131 770	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	152	45	3 285	115 231	2 633	5 555	79 292	247 665	131 599	379 715	20 447
33271	Machine shops	1	126	32	2 389	84 353	1 902	3 978	57 506	183 625	96 414	281 361	15 451
332710	Machine shops	1	126	32	2 389	84 353	1 902	3 978	57 506	183 625	96 414	281 361	15 451
33272	Turned product & screw, nut, & bolt mfg	-	26	13	896	30 878	731	1 577	21 786	64 040	35 185	98 354	4 996
332721	Precision turned product mfg	-	23	13	853	29 697	696	1 501	20 898	59 323	31 963	90 500	D
3328	Coating, engraving, heat treating, & allied activities ..	-	28	6	552	19 081	418	979	11 859	41 076	11 897	52 680	2 374
33281	Coating, engraving, heat treating, & allied activities	-	28	6	552	19 081	418	979	11 859	41 076	11 897	52 680	2 374
3329	Other fabricated metal product mfg	-	32	15	1 908	76 951	1 248	2 558	41 827	202 894	137 424	338 517	15 194
33291	Metal valve mfg	-	3	3	f	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	-	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	29	12	g	D	D	D	D	D	D	D	D
333	Machinery mfg	1	208	90	9 471	381 845	6 021	12 399	208 420	847 665	673 643	1 571 354	62 511
3331	Agriculture, construction, & mining machinery mfg. ...	-	9	5	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	7	4	760	33 449	376	774	13 084	91 145	92 544	185 219	D
333120	Construction machinery mfg	-	7	4	760	33 449	376	774	13 084	91 145	92 544	185 219	D
3332	Industrial machinery mfg ..	-	36	14	1 283	45 803	933	2 060	28 337	114 873	117 464	230 191	7 418
33329	Other industrial machinery mfg	-	31	11	g	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	6	9	5	989	36 176	411	889	10 001	100 886	57 916	155 590	3 070
33331	Commercial & service industry machinery mfg	6	9	5	989	36 176	411	889	10 001	100 886	57 916	155 590	3 070
333319	Other commercial & service industry machinery mfg	5	7	4	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	94	36	2 519	105 368	1 881	3 899	70 977	187 827	92 153	283 110	15 271
33351	Metalworking machinery mfg	1	94	36	2 519	105 368	1 881	3 899	70 977	187 827	92 153	283 110	15 271
333511	Industrial mold mfg ...	-	26	9	649	31 623	515	1 128	23 907	42 502	23 211	64 088	3 320
333514	Special die & tool, die set, jig, & fixture mfg ..	2	46	14	762	33 949	598	1 239	24 500	58 793	17 999	76 682	7 609
333515	Cutting tool & machine tool accessory mfg ..	-	13	7	683	25 513	452	979	14 720	62 559	29 622	95 956	3 281
3336	Engine, turbine, & power transmission equipment mfg	-	15	10	g	D	D	D	D	D	D	D	21 724
33361	Engine, turbine, & power transmission equipment mfg	-	15	10	g	D	D	D	D	D	D	D	21 724
333618	Other engine equipment mfg	-	5	3	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	40	19	2 213	93 037	1 329	2 626	45 437	231 560	191 459	423 259	6 784
33399	All other general-purpose machinery mfg	-	28	15	1 832	78 028	1 115	2 183	39 039	193 878	170 218	364 636	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WAUKESHA COUNTY, WI—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	48	27	3 203	122 684	2 077	3 816	66 676	897 392	739 335	1 630 601	13 425
3344	Semiconductor & other electronic component mfg.....	3	17	8	915	24 111	655	1 215	13 369	48 953	40 156	87 926	D
33441	Semiconductor & other electronic component mfg.....	3	17	8	915	24 111	655	1 215	13 369	48 953	40 156	87 926	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	22	14	2 012	87 003	1 222	2 347	44 432	816 869	630 803	1 444 975	7 996
33451	Navigational, measuring, medical, & control instruments mfg.....	-	22	14	2 012	87 003	1 222	2 347	44 432	816 869	630 803	1 444 975	7 996
334510	Electromedical & electrotherapeutic apparatus mfg.....	-	6	5	f	D	D	D	D	D	D	D	D
334517	Irradiation apparatus mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	39	25	4 616	178 294	2 860	6 362	94 870	460 770	625 544	1 074 533	29 018
3353	Electrical equipment mfg ..	-	28	19	h	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	28	19	h	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg.....	-	4	4	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg.....	-	6	5	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg.....	-	16	9	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	1	20	8	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	1	15	7	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	1	75	24	1 822	56 632	1 158	2 120	25 494	161 548	150 367	312 145	11 423
3391	Medical equipment & supplies mfg.....	2	28	7	f	D	D	D	D	D	D	D	2 715
33911	Medical equipment & supplies mfg.....	2	28	7	f	D	D	D	D	D	D	D	2 715
3399	Other miscellaneous mfg ..	1	47	17	g	D	D	D	D	D	D	D	8 708
	WAUPACA COUNTY, WI												
31-33	Manufacturing	-	105	40	5 995	176 031	4 999	9 530	130 800	586 686	656 677	1 235 325	29 121
311	Food mfg.....	-	21	8	1 065	26 676	912	1 690	21 181	112 319	321 475	428 061	8 851
321	Wood product mfg.....	-	15	6	515	11 680	425	813	8 052	31 399	44 491	72 259	2 296
323	Printing & related support activities.....	-	11	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	11	2	f	D	D	D	D	D	D	D	D
32311	Printing.....	-	11	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	6	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
3315	Foundries ..	-	2	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
331511	Iron foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	7	5	717	19 934	535	811	10 989	33 883	34 799	70 271	798
	WAUSHARA COUNTY, WI												
31-33	Manufacturing	-	32	9	746	14 949	658	1 103	11 142	38 808	40 663	79 192	6 008

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WINNEBAGO COUNTY, WI													
31-33	Manufacturing	-	316	166	27 191	976 515	19 575	40 875	642 591	2 873 833	3 186 071	6 026 594	234 856
321	Wood product mfg	-	11	6	g	D	D	D	D	D	D	D	5 767
3219	Other wood product mfg	-	10	5	f	D	D	D	D	D	D	D	D
32191	Millwork	-	5	4	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	3	3	755	22 105	644	1 475	17 900	40 555	68 171	110 081	D
322	Paper mfg	-	43	31	i	D	D	D	D	D	D	D	94 252
3221	Pulp, paper, & paperboard mills	-	9	9	h	D	D	D	D	D	D	D	D
32212	Paper mills	-	7	7	2 648	132 025	1 938	4 107	92 190	598 447	379 366	971 207	D
322121	Paper (except newsprint) mills	-	7	7	2 648	132 025	1 938	4 107	92 190	598 447	379 366	971 207	D
3222	Converted paper product mfg	-	34	22	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	11	9	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	4	4	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	13	8	2 469	102 663	1 931	3 921	74 220	400 350	360 901	758 511	D
322291	Sanitary paper product mfg	-	7	5	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	45	29	4 284	148 783	2 548	5 269	77 726	315 558	252 265	562 433	28 846
3231	Printing & related support activities	-	45	29	4 284	148 783	2 548	5 269	77 726	315 558	252 265	562 433	28 846
32311	Printing	-	37	21	3 694	125 485	2 126	4 336	62 462	271 223	233 528	499 579	23 814
323110	Commercial lithographic printing	-	18	12	2 255	72 039	1 221	2 316	32 413	150 040	78 691	226 822	8 683
323117	Book printing	-	3	3	f	D	D	D	D	D	D	D	D
32312	Support activities for printing	-	8	8	590	23 298	422	933	15 264	44 335	18 737	62 854	5 032
323122	Prepress services	-	6	6	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	20	17	2 510	86 365	2 103	4 931	68 248	311 977	392 171	704 277	47 117
3261	Plastics product mfg	-	15	13	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	9	9	g	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	6	6	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	1	f	D	D	D	D	D	D	D	D
3315	Foundries	-	3	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	59	28	1 384	42 727	1 046	2 140	29 042	91 348	85 418	175 143	11 497
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	23	11	508	17 258	395	781	12 003	33 070	14 182	46 057	6 840
333	Machinery mfg	-	28	16	1 499	55 842	1 056	2 207	34 704	145 053	86 102	228 877	4 415
3332	Industrial machinery mfg	-	6	6	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	6	6	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	4	4	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	12	7	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	9	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	6	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	3	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	2	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	9	7	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	9	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	9	7	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	2	2	f	D	D	D	D	D	D	D	D

Table 3. Industry Statistics for Counties: 1997—Con.

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
WINNEBAGO COUNTY, WI—Con.														
31-33	Manufacturing—Con.													
336	Transportation equipment mfg	-	8	5	h	D	D	D	D	D	D	D	D	
3361	Motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D	
33612	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D	
336120	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D	
3362	Motor vehicle body & trailer mfg	-	2	2	g	D	D	D	D	D	D	D	D	
33621	Motor vehicle body & trailer mfg	-	2	2	g	D	D	D	D	D	D	D	D	
336211	Motor vehicle body mfg	-	2	2	g	D	D	D	D	D	D	D	D	
WOOD COUNTY, WI														
31-33	Manufacturing	-	117	45		9 421	363 262	7 764	15 453	268 190	996 665	1 547 577	2 535 553	91 566
311	Food mfg	-	19	10		1 036	24 289	883	1 901	20 749	45 904	436 695	486 068	6 249
3115	Dairy product mfg	-	10	8		961	23 058	832	1 822	19 941	41 764	426 680	471 964	6 061
31151	Dairy product (except frozen) mfg	-	9	7	f	D	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	8	6	f	D	D	D	D	D	D	D	D	D
321	Wood product mfg	-	12	8		1 859	51 482	1 525	2 906	36 686	110 286	115 775	225 798	5 696
3219	Other wood product mfg	-	9	5		1 574	44 088	1 289	2 385	31 473	89 169	96 274	185 109	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	5	3	f	D	D	D	D	D	D	D	D	D
322	Paper mfg	-	8	8	h	D	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	5	5	h	D	D	D	D	D	D	D	D	D
32212	Paper mills	-	4	4	h	D	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	4	4	h	D	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.

²Industries 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: c–100 to 249 employees; e–250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees, h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

Table 4. Industry Statistics for Places: 1997

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
ALGOMA, WI														
31-33	Manufacturing	-	16	8		1 373	35 290	992	1 531	17 530	78 785	62 533	138 979	5 190
321	Wood product mfg	-	5	3	f	D	D	D	D	D	D	D	D	2 797
3219	Other wood product mfg	-	3	2	f	D	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	3	2	f	D	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	3	2	f	D	D	D	D	D	D	D	D	D
32311	Printing	-	3	2	f	D	D	D	D	D	D	D	D	D
323119	Other commercial printing	-	1	1	f	D	D	D	D	D	D	D	D	D
ANTIGO, WI														
31-33	Manufacturing	-	24	13		1 198	30 402	990	1 843	20 814	73 861	78 340	151 483	5 318

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[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
APPLETON, WI *													
31-33	Manufacturing	-	120	51	8 235	314 719	5 399	11 100	178 057	949 942	1 209 437	2 168 082	58 482
322	Paper mfg	-	15	12	2 453	99 895	1 932	4 280	72 019	382 996	525 159	910 903	21 128
3221	Pulp, paper, & paperboard mills	-	3	3	593	25 874	386	901	15 808	58 194	81 211	143 944	D
32212	Paper mills	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	12	9	1 860	74 021	1 546	3 379	56 211	324 802	443 948	766 959	D
32222	Paper bag & coated & treated paper mfg	-	4	4	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	4	4	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	22	6	591	20 741	339	636	9 677	33 899	37 199	70 944	1 942
3231	Printing & related support activities	2	22	6	591	20 741	339	636	9 677	33 899	37 199	70 944	1 942
32311	Printing	2	21	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	12	8	2 730	117 170	1 357	2 593	49 160	352 649	383 212	736 554	16 243
3332	Industrial machinery mfg ..	-	5	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	3	3	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	2	2	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
ASHLAND, WI													
31-33	Manufacturing	-	14	7	986	32 676	749	1 564	22 357	51 588	44 432	95 694	5 420
ASHWAUBENON, WI													
31-33	Manufacturing	2	71	37	3 723	152 771	2 535	4 899	95 036	402 754	418 627	817 129	23 700
322	Paper mfg	-	4	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	4	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	9	10	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	9	10	2	f	D	D	D	D	D	D	D	D
32311	Printing	9	10	2	f	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing ..	9	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	10	558	21 897	424	887	14 350	47 195	44 990	90 929	1 808
333	Machinery mfg	-	12	6	g	D	D	D	D	D	D	D	7 077
3332	Industrial machinery mfg ..	-	4	2	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
BARABOO, WI													
31-33	Manufacturing	-	28	13	2 021	55 946	1 616	3 515	41 403	125 429	138 516	262 472	5 057
326	Plastics & rubber products mfg	1	5	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	1	f	D	D	D	D	D	D	D	D
BARRON, WI													
31-33	Manufacturing	-	8	3	g	D	D	D	D	D	D	D	D
311	Food mfg	-	4	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
BEAVER DAM, WI													
31-33	Manufacturing	1	27	16	1 514	41 382	1 195	2 387	28 598	108 005	233 984	343 365	8 132

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BELOIT, WI													
31-33	Manufacturing	-	52	22	4 896	198 947	3 398	7 216	114 973	666 913	616 935	1 257 453	35 439
311	Food mfg	-	6	5	g	D	D	D	D	D	D	D	D
3119	Other food mfg	-	3	3	f	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	2	2	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	5	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	3	2	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
BERLIN, WI *													
31-33	Manufacturing	-	29	15	1 338	30 998	1 072	1 905	19 973	75 573	49 494	128 175	2 813
BLACK RIVER FALLS, WI													
31-33	Manufacturing	-	16	7	f	D	D	D	D	D	D	D	D
BOSCOBEL, WI													
31-33	Manufacturing	-	9	2	f	D	D	D	D	D	D	D	858
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	1	1	f	D	D	D	D	D	D	D	D
BRILLION, WI													
31-33	Manufacturing	-	6	4	1 868	67 522	1 436	2 999	47 123	159 782	156 500	312 617	6 177
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
BRODHEAD, WI													
31-33	Manufacturing	-	8	3	554	14 898	442	700	9 402	41 398	48 999	87 456	689
BROOKFIELD, WI													
31-33	Manufacturing	1	90	29	2 873	102 491	2 058	4 295	64 756	244 100	211 686	456 599	17 053
323	Printing & related support activities	5	16	6	748	26 644	568	1 245	18 865	49 305	44 290	93 779	4 868
3231	Printing & related support activities	5	16	6	748	26 644	568	1 245	18 865	49 305	44 290	93 779	4 868
32311	Printing	5	13	5	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	5	7	5	650	23 955	486	1 094	17 070	43 929	42 575	86 730	4 611
332	Fabricated metal product mfg	-	17	7	639	22 115	393	788	11 797	62 751	50 688	113 796	5 908
333	Machinery mfg	-	15	4	765	34 045	629	1 389	24 627	86 407	74 150	160 780	4 515

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BROWN DEER, WI													
31-33	Manufacturing	-	21	10	1 746	67 984	1 112	2 258	33 122	171 297	117 825	287 598	10 793
334	Computer & electronic product mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
BURLINGTON, WI *													
31-33	Manufacturing	-	39	13	2 260	69 673	1 790	3 283	45 099	433 902	251 218	684 540	47 273
311	Food mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans.....	-	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans...	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
CALEDONIA TOWN, WI													
31-33	Manufacturing	-	26	10	614	19 175	474	900	12 411	48 960	25 712	75 955	3 084
CEDARBURG, WI													
31-33	Manufacturing	-	44	17	1 663	59 215	1 193	2 488	38 397	165 718	154 550	318 752	9 898
CHILTON, WI													
31-33	Manufacturing	-	19	10	1 246	40 449	915	1 985	22 891	131 925	145 808	277 869	10 998
CHIPPEWA FALLS, WI													
31-33	Manufacturing	-	57	20	4 582	157 827	3 316	5 529	110 665	315 839	343 713	660 269	30 431
316	Leather & allied product mfg.	-	1	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg.	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	3	3	539	18 562	417	980	13 701	80 933	71 956	153 358	5 346
3261	Plastics product mfg.....	-	3	3	539	18 562	417	980	13 701	80 933	71 956	153 358	5 346
334	Computer & electronic product mfg.....	-	5	2	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
CLINTONVILLE, WI													
31-33	Manufacturing	-	15	8	965	26 207	746	1 230	15 538	66 288	49 870	116 675	7 158
COLUMBUS, WI *													
31-33	Manufacturing	-	24	11	1 239	38 412	827	1 704	22 891	114 380	212 374	328 774	8 968
333	Machinery mfg.....	-	7	5	632	17 452	375	795	9 781	47 013	114 023	163 026	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CUDAHY, WI													
31-33	Manufacturing	-	47	21	3 637	131 330	2 630	5 294	84 165	293 121	353 673	644 869	28 056
311	Food mfg	-	3	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	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
332	Fabricated metal product mfg	-	16	7	1 669	69 846	1 275	2 514	48 426	149 245	143 038	290 126	9 911
3321	Forging & stamping	-	1	1	g	D	D	D	D	D	D	D	D
33211	Forging & stamping	-	1	1	g	D	D	D	D	D	D	D	D
332111	Iron & steel forging ...	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	11	8	887	33 855	548	1 153	18 586	81 545	79 365	160 748	2 360
DEHAVAN, WI													
31-33	Manufacturing	-	35	16	2 414	80 646	1 759	3 574	46 176	195 851	208 237	404 192	12 570
333	Machinery mfg	-	5	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	3	2	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg	-	2	2	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
DE PERE, WI													
31-33	Manufacturing	-	48	22	2 725	100 805	1 862	4 047	57 927	240 359	261 270	497 758	15 769
322	Paper mfg	-	7	6	f	D	D	D	D	D	D	D	8 471
3221	Pulp, paper, & paperboard mills	-	4	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	7	5	519	16 266	370	816	9 656	35 648	27 736	63 239	3 613
3231	Printing & related support activities	1	7	5	519	16 266	370	816	9 656	35 648	27 736	63 239	3 613
333	Machinery mfg	1	8	4	752	33 325	379	806	13 435	59 796	41 929	100 120	D
3332	Industrial machinery mfg ..	-	5	2	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	5	2	f	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
EAST TROY, WI													
31-33	Manufacturing	1	22	10	1 100	30 080	822	1 596	18 828	72 127	79 400	152 239	7 153
EAU CLAIRE, WI *													
31-33	Manufacturing	-	93	35	4 353	115 566	3 358	7 082	76 528	369 935	251 037	623 511	66 382
311	Food mfg	-	8	5	621	17 818	422	785	9 149	39 030	89 105	128 389	7 033
326	Plastics & rubber products mfg	-	9	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	6	2	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	1	1	g	D	D	D	D	D	D	D	D
ELKHORN, WI													
31-33	Manufacturing	1	40	19	1 779	46 581	1 367	2 692	28 335	104 431	99 991	204 292	3 916
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
EVANSVILLE, WI													
31-33	Manufacturing	-	6	3	707	28 023	458	1 156	14 499	55 519	55 035	109 873	1 834

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FITCHBURG, WI													
31-33	Manufacturing	1	27	10	1 737	74 298	745	1 628	20 597	206 313	113 993	319 667	9 160
334	Computer & electronic product mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
FOND DU LAC, WI													
31-33	Manufacturing	-	93	37	7 301	297 392	5 015	9 523	183 031	888 756	717 061	1 609 489	44 546
311	Food mfg.....	-	8	6	501	14 032	356	645	8 554	58 531	140 275	197 886	D
331	Primary metal mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	20	9	563	15 369	386	705	9 286	28 522	19 435	48 245	1 807
333	Machinery mfg.....	-	13	6	h	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	-	6	1	f	D	D	D	D	D	D	D	1 710
33351	Metalworking machinery mfg.....	-	6	1	f	D	D	D	D	D	D	D	1 710
333512	Machine tool (metal cutting types) mfg....	-	1	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg.....	1	4	4	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
FORT ATKINSON, WI													
31-33	Manufacturing	2	27	18	2 553	78 079	1 894	3 781	48 478	207 709	369 501	584 026	22 732
311	Food mfg.....	2	5	5	1 143	31 900	926	1 871	21 968	100 982	157 904	264 064	8 809
3116	Meat product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses.....	-	2	2	f	D	D	D	D	D	D	D	D
FRANKLIN, WI													
31-33	Manufacturing	-	37	21	2 479	95 774	1 662	3 449	51 208	179 206	189 691	367 194	16 186
332	Fabricated metal product mfg.....	-	12	6	632	19 223	481	1 004	11 528	43 449	20 456	63 642	7 397
333	Machinery mfg.....	-	9	5	993	42 932	589	1 229	19 830	57 673	99 758	156 533	6 196
3339	Other general-purpose machinery mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
GERMANTOWN, WI													
31-33	Manufacturing	-	100	45	3 558	128 131	2 356	4 569	67 302	316 829	311 725	621 601	28 671
332	Fabricated metal product mfg.....	-	32	13	1 063	35 614	703	1 273	19 071	75 367	46 597	114 542	10 819
333	Machinery mfg.....	-	28	10	703	31 811	421	861	16 593	57 660	48 121	107 432	4 490
GLENDALE, WI													
31-33	Manufacturing	2	58	26	2 951	108 620	1 935	3 958	58 142	302 716	252 749	562 686	23 895
335	Electrical equipment, appliance, & component mfg.....	-	5	3	f	D	D	D	D	D	D	D	7 618

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GRAFTON, WI													
31-33	Manufacturing	—	55	26	3 523	128 802	2 620	5 152	77 888	298 335	262 249	565 754	18 252
331	Primary metal mfg	—	4	3	f	D	D	D	D	D	D	D	D
3315	Foundries	—	4	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	2	2	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	14	6	620	27 278	480	975	14 442	52 284	25 786	77 474	3 068
333	Machinery mfg	—	13	6	833	28 051	596	1 138	16 241	65 230	60 502	123 554	3 418
335	Electrical equipment, appliance, & component mfg	—	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D
GRAND CHUTE TOWN, WI													
31-33	Manufacturing	—	44	15	3 697	97 635	2 869	4 868	67 132	255 955	312 253	566 521	21 265
311	Food mfg	—	4	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	—	1	1	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	—	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	3	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	2	1	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	—	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	—	1	1	f	D	D	D	D	D	D	D	D
GREEN BAY, WI													
31-33	Manufacturing	1	200	83	16 692	695 300	12 174	25 769	406 439	1 768 420	2 871 263	4 634 492	163 512
311	Food mfg	2	25	10	4 137	105 489	3 245	7 247	81 517	355 766	1 156 543	1 512 032	26 141
3114	Fruit & vegetable preserving & specialty food mfg	9	2	2	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	9	2	2	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	9	2	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	5	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	—	2	2	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	—	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	3	4	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	3	4	3	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	3	3	2	g	D	D	D	D	D	D	D	D
322	Paper mfg	—	18	14	7 464	407 616	5 584	11 611	230 795	980 919	1 373 398	2 351 170	113 033
3221	Pulp, paper, & paperboard mills	—	4	4	h	D	D	D	D	D	D	D	D
32212	Paper mills	—	3	3	h	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	3	3	h	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	14	10	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	—	10	7	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	—	7	6	2 003	88 448	1 664	3 432	70 509	394 065	824 938	1 226 800	35 710
332	Fabricated metal product mfg	—	29	12	829	28 649	621	1 304	17 931	62 410	37 322	99 721	3 993
333	Machinery mfg	—	30	16	1 341	52 382	857	1 740	28 996	118 812	96 511	215 724	7 493
3332	Industrial machinery mfg	—	16	11	789	31 219	470	941	16 947	75 536	50 360	124 695	4 679
33329	Other industrial machinery mfg	—	15	10	f	D	D	D	D	D	D	D	D

Table 4. Industry Statistics for Places: 1997—Con.

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	GREEN BAY, WI—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	-	12	4	1 200	53 793	614	1 493	16 589	88 059	48 145	136 159	D
3372	Office furniture (including fixtures) mfg	-	2	2	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	2	2	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	-	1	1	f	D	D	D	D	D	D	D	D
	GREENDALE, WI												
31-33	Manufacturing	-	23	8	524	15 437	383	777	9 490	40 895	19 202	60 372	922
	HARTFORD, WI *												
31-33	Manufacturing	-	30	18	3 315	105 793	2 689	5 619	79 222	273 468	244 701	517 159	14 417
323	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	5	625	17 491	538	1 107	13 428	43 150	23 802	65 996	3 037
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg. .	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg...	-	1	1	f	D	D	D	D	D	D	D	D
	HARTLAND, WI												
31-33	Manufacturing	1	54	17	1 522	52 250	899	1 607	21 193	120 089	99 218	219 779	8 299
	HORICON, WI												
31-33	Manufacturing	-	10	4	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	2	1	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg.	-	1	1	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	g	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
	HUDSON, WI												
31-33	Manufacturing	-	32	14	1 224	38 547	920	1 832	23 354	89 552	109 669	202 078	7 115

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JANESVILLE, WI													
31-33	Manufacturing	-	104	40	12 380	504 194	10 247	22 129	395 119	3 016 117	5 371 407	8 390 634	158 178
326	Plastics & rubber products mfg	-	6	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	6	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	12	6	f	D	D	D	D	D	D	D	2 274
3335	Metalworking machinery mfg	-	7	3	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	-	7	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	10	5	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	3	1	i	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	4	3	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	11	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	6	2	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	1	1	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D
JEFFERSON, WI													
31-33	Manufacturing	-	18	7	1 497	45 765	1 173	2 609	30 367	127 400	254 614	381 948	13 494
311	Food mfg	-	4	3	831	27 400	681	1 452	21 557	71 173	211 119	284 219	9 613
KAUKAUNA, WI													
31-33	Manufacturing	-	23	7	1 385	53 801	1 030	2 122	36 892	215 565	113 058	328 728	8 704
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
KENOSHA, WI													
31-33	Manufacturing	-	126	48	5 949	280 648	4 661	9 905	210 998	533 449	752 418	1 287 655	128 285
331	Primary metal mfg	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	27	12	1 015	33 392	807	1 455	22 044	71 848	33 892	105 452	2 992
336	Transportation equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
KEWASKUM, WI *													
31-33	Manufacturing	-	5	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	-	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	KIEL, WI *												
31-33	Manufacturing	2	17	6	832	23 417	583	1 151	14 630	39 057	129 188	169 966	1 850
	KIMBERLY, WI												
31-33	Manufacturing	-	11	5	1 403	66 358	1 096	2 500	48 715	214 652	316 227	543 665	7 049
322	Paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D
	LA CROSSE, WI												
31-33	Manufacturing	-	91	33	7 001	246 235	4 728	9 515	137 476	367 439	737 427	1 110 262	40 262
312	Beverage & tobacco product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	2	2	f	D	D	D	D	D	D	D	D
31212	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	2	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg	-	2	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	23	7	787	20 153	593	1 117	13 630	42 257	29 353	72 429	4 787
3231	Printing & related support activities	-	23	7	787	20 153	593	1 117	13 630	42 257	29 353	72 429	4 787
32311	Printing	-	18	7	755	19 359	569	1 076	13 054	40 523	28 950	70 295	4 677
332	Fabricated metal product mfg	-	17	7	692	25 763	549	1 100	18 201	71 274	89 943	160 993	5 487
333	Machinery mfg	-	8	3	h	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	1	1	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	1	1	h	D	D	D	D	D	D	D	D
	LADYSMITH, WI												
31-33	Manufacturing	-	12	5	825	19 897	721	1 346	16 296	30 230	50 451	80 619	7 535
321	Wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
	LAKE GENEVA, WI												
31-33	Manufacturing	1	30	15	1 750	52 332	1 326	2 859	31 951	103 759	91 532	196 816	6 442
339	Miscellaneous mfg	-	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
	LAKE MILLS, WI												
31-33	Manufacturing	2	14	10	1 686	58 087	1 139	2 748	35 991	123 526	80 139	193 073	6 396
333	Machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333294	Food product machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LITTLE CHUTE, WI													
31-33	Manufacturing	-	26	10	1 307	37 261	980	1 974	22 931	77 416	160 183	237 920	8 749
311	Food mfg	-	5	3	882	24 595	661	1 323	14 245	49 418	146 196	196 026	6 363
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
MADISON, WI													
31-33	Manufacturing	-	228	79	11 464	370 360	8 407	16 681	240 704	1 344 489	1 229 209	2 573 874	55 379
311	Food mfg	-	29	15	4 088	127 905	3 276	6 849	101 102	571 835	670 244	1 244 196	16 823
3115	Dairy product mfg	-	4	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	3	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	3	h	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	3	3	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	13	5	686	15 875	352	554	9 890	63 675	24 557	88 617	D
31181	Bread & bakery product mfg	-	12	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	7	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	61	15	1 608	53 552	1 231	2 442	36 070	107 143	65 148	173 921	7 271
3231	Printing & related support activities	-	61	15	1 608	53 552	1 231	2 442	36 070	107 143	65 148	173 921	7 271
32311	Printing	-	52	13	1 488	49 022	1 133	2 269	33 293	99 880	60 973	162 343	D
323117	Book printing	-	4	4	816	29 721	671	1 322	21 388	50 033	36 250	87 766	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	12	9	1 537	46 027	978	1 765	21 971	133 094	121 726	249 622	6 671
3332	Industrial machinery mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	16	5	515	20 480	227	463	6 012	50 720	39 065	91 147	2 719
335	Electrical equipment, appliance, & component mfg	-	4	4	f	D	D	D	D	D	D	D	D
MANITOWOC, WI													
31-33	Manufacturing	-	88	50	9 202	280 103	7 213	13 651	189 320	819 379	650 084	1 478 908	53 899
311	Food mfg	-	16	9	f	D	D	D	D	D	D	D	17 990
326	Plastics & rubber products mfg	1	11	8	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	f	D	D	D	D	D	D	D	D
3315	Foundries	-	3	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	9	2 910	88 998	2 341	4 189	61 099	321 245	133 299	461 701	10 520
3322	Cutlery & handtool mfg	-	2	2	g	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	-	2	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	11	7	1 325	49 066	816	1 433	29 142	146 470	133 439	279 866	5 464
3331	Agriculture, construction, & mining machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	MANITOWOC, WI—Con. Manufacturing—Con.													
336	Transportation equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	2	2	f	D	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine & engine parts mfg	-	1	1	f	D	D	D	D	D	D	D	D	
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	f	D	D	D	D	D	D	D	D	
	MARINETTE, WI													
31-33	Manufacturing	-	31	13		3 948	131 413	2 974	6 375	90 338	332 748	413 821	747 416	32 310
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D	
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D	
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D	
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D	
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D	
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D	
33151	Ferrous metal foundries ..	-	1	1	f	D	D	D	D	D	D	D	D	
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	3	3	g	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine & engine parts mfg	-	1	1	f	D	D	D	D	D	D	D	D	
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	f	D	D	D	D	D	D	D	D	
3366	Ship & boat building	-	1	1	f	D	D	D	D	D	D	D	D	
33661	Ship & boat building	-	1	1	f	D	D	D	D	D	D	D	D	
336611	Ship building & repairing	-	1	1	f	D	D	D	D	D	D	D	D	
339	Miscellaneous mfg	-	2	1	f	D	D	D	D	D	D	D	D	
3399	Other miscellaneous mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	
33999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D	
339999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D	
	MARSHFIELD, WI *													
31-33	Manufacturing	-	53	20		3 053	87 631	2 443	4 781	59 247	199 746	334 143	536 200	12 885
321	Wood product mfg	-	6	5	g	1 698	47 505	1 381	2 634	33 677	103 431	105 557	208 763	D
3219	Other wood product mfg ...	-	4	3	g	D	D	D	D	D	D	D	D	D
32191	Millwork	-	2	1	f	D	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	2	1	f	D	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
	MAUSTON, WI													
31-33	Manufacturing	-	14	7		680	19 350	552	1 040	14 021	55 661	44 328	100 597	5 124
	MAYVILLE, WI													
31-33	Manufacturing	1	24	14		3 206	96 902	2 571	5 456	72 858	220 274	332 744	548 291	21 195
311	Food mfg	-	4	3	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	7	5	g	1 592	52 153	1 264	2 746	37 996	95 201	112 594	207 897	12 879
3321	Forging & stamping	-	2	2	f	D	D	D	D	D	D	D	D	D
33211	Forging & stamping	-	2	2	f	D	D	D	D	D	D	D	D	D
332116	Metal stamping	-	2	2	f	D	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg ..	-	2	2	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg	-	5	4	f	D	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MEDFORD, WI													
31-33	Manufacturing	-	29	11	2 765	79 550	2 196	4 229	56 398	169 989	397 744	568 712	6 602
311	Food mfg	-	7	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	8	4	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	8	4	g	D	D	D	D	D	D	D	D
32191	Millwork	-	6	4	g	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	5	3	g	D	D	D	D	D	D	D	D
MENASHA, WI *													
31-33	Manufacturing	-	36	22	4 412	183 017	3 080	6 454	118 008	433 753	537 474	968 871	64 869
322	Paper mfg	-	13	10	2 901	125 769	2 056	4 302	81 687	266 143	395 814	664 823	46 345
3221	Pulp, paper, & paperboard mills	-	4	4	992	55 427	583	1 330	29 541	192 287	117 652	314 278	D
32212	Paper mills	-	3	3	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	9	6	1 909	70 342	1 473	2 972	52 146	73 856	278 162	350 545	D
32222	Paper bag & coated & treated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	4	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	9	5	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	9	5	f	D	D	D	D	D	D	D	D
32311	Printing	-	7	3	f	D	D	D	D	D	D	D	D
323117	Book printing	-	2	2	f	D	D	D	D	D	D	D	D
MENASHA TOWN, WI													
31-33	Manufacturing	-	45	21	3 851	154 434	3 067	6 285	117 306	619 118	408 638	1 019 647	29 413
322	Paper mfg	-	7	4	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	6	6	698	18 390	575	1 166	13 090	38 165	19 214	56 864	2 388
3231	Printing & related support activities	2	6	6	698	18 390	575	1 166	13 090	38 165	19 214	56 864	2 388
32311	Printing	2	5	5	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	1	1	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	1	1	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	-	1	1	g	D	D	D	D	D	D	D	D
MENOMONEE FALLS, WI													
31-33	Manufacturing	1	211	100	9 784	354 145	6 613	13 533	199 020	745 816	678 843	1 476 302	71 000
323	Printing & related support activities	-	23	8	1 134	41 943	784	1 479	24 780	91 839	61 503	152 216	16 102
3231	Printing & related support activities	-	23	8	1 134	41 943	784	1 479	24 780	91 839	61 503	152 216	16 102
32311	Printing	-	20	6	1 006	36 929	688	1 299	21 519	82 506	58 784	140 140	D
323110	Commercial lithographic printing ..	-	5	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	16	8	656	22 201	505	960	13 789	51 452	52 232	105 113	2 771
3261	Plastics product mfg	-	16	8	656	22 201	505	960	13 789	51 452	52 232	105 113	2 771
332	Fabricated metal product mfg	-	60	26	2 775	101 804	2 045	4 307	64 853	236 599	142 382	380 693	17 950
3323	Architectural & structural metals mfg	-	12	6	537	19 429	410	852	11 735	37 557	31 197	69 308	4 016
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	25	9	972	36 546	755	1 731	25 911	69 502	38 356	108 288	4 060
33271	Machine shops	1	18	6	645	24 558	483	1 108	16 985	44 147	25 845	71 472	1 506
332710	Machine shops	1	18	6	645	24 558	483	1 108	16 985	44 147	25 845	71 472	1 506

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MENOMONEE FALLS, WI—Con.												
	Manufacturing—Con.												
333	Machinery mfg	1	53	29	2 720	107 767	1 624	3 390	54 807	165 608	197 999	417 494	15 703
3331	Agriculture, construction, & mining machinery mfg.	—	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.	—	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg.	—	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.	2	29	14	713	31 806	542	1 159	22 412	43 557	31 102	73 799	5 067
33351	Metalworking machinery mfg.	2	29	14	713	31 806	542	1 159	22 412	43 557	31 102	73 799	5 067
3339	Other general-purpose machinery mfg.	2	14	8	815	29 319	452	972	13 456	57 207	50 945	110 708	2 555
33399	All other general-purpose machinery mfg.	2	11	7	765	27 271	420	904	12 334	52 949	47 456	102 983	D
334	Computer & electronic product mfg.	4	13	6	561	15 118	346	674	6 911	35 506	27 979	62 420	2 539
335	Electrical equipment, appliance, & component mfg.	—	6	6	632	18 847	449	834	9 043	46 415	70 772	116 612	4 092
	MENOMONIE, WI												
31-33	Manufacturing	—	25	8	1 785	67 902	1 443	3 013	46 075	436 438	201 680	634 839	30 728
311	Food mfg.	—	2	1	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.	—	1	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg.	—	1	1	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, & evaporated dairy product mfg.	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.	—	2	2	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg. ..	—	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg.	—	1	1	f	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg.	—	1	1	f	D	D	D	D	D	D	D	D
	MEQUON, WI												
31-33	Manufacturing	—	48	20	3 370	132 365	1 704	3 200	50 090	359 031	306 825	670 715	21 185
325	Chemical mfg.	—	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.	—	5	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg. ..	—	2	1	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.	—	2	1	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg.	—	1	1	g	D	D	D	D	D	D	D	D
	MERRILL, WI												
31-33	Manufacturing	—	33	17	2 637	64 933	2 088	3 888	44 743	150 327	155 680	305 600	6 489
321	Wood product mfg.	—	9	4	g	D	D	D	D	D	D	D	2 499
3219	Other wood product mfg.	—	6	4	g	D	D	D	D	D	D	D	D
32191	Millwork	—	6	4	g	D	D	D	D	D	D	D	D
321911	Wood window & door mfg.	—	6	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.	—	9	7	f	D	D	D	D	D	D	D	D
	MIDDLETON, WI												
31-33	Manufacturing	—	61	19	2 709	92 886	1 732	3 438	45 907	193 008	199 422	392 705	13 249
337	Furniture & related product mfg.	—	7	2	g	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg.	—	1	1	g	D	D	D	D	D	D	D	D
33792	Blind & shade mfg.	—	1	1	g	D	D	D	D	D	D	D	D
337920	Blind & shade mfg.	—	1	1	g	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
	MILWAUKEE, WI *												
31-33	Manufacturing	1	848	321	46 467	1 643 485	32 625	61 631	967 236	4 168 514	4 205 032	8 392 367	320 953
311	Food mfg	3	68	23	4 735	122 751	3 300	6 376	75 369	490 682	1 023 635	1 537 486	26 310
3113	Sugar & confectionery product mfg	-	5	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	5	13	6	2 680	65 188	2 085	4 136	45 080	232 123	740 750	977 421	11 096
31161	Animal slaughtering & processing	5	13	6	2 680	65 188	2 085	4 136	45 080	232 123	740 750	977 421	11 096
311611	Animal (except poultry) slaughtering	9	5	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	7	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	32	8	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	30	8	736	12 884	332	533	6 407	61 148	23 237	84 439	D
311812	Commercial bakeries ..	-	8	5	514	10 223	205	372	4 957	56 380	20 287	76 717	D
3119	Other food mfg	-	15	6	735	25 588	542	1 067	15 609	147 626	153 115	300 300	13 400
312	Beverage & tobacco product mfg	-	4	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	4	2	f	D	D	D	D	D	D	D	D
31212	Breweries	-	3	1	f	D	D	D	D	D	D	D	D
312120	Breweries	-	3	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg ..	-	12	9	g	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing	-	8	8	1 048	27 620	883	1 828	20 321	71 226	128 496	209 705	D
31611	Leather & hide tanning & finishing	-	8	8	1 048	27 620	883	1 828	20 321	71 226	128 496	209 705	D
316110	Leather & hide tanning & finishing	-	8	8	1 048	27 620	883	1 828	20 321	71 226	128 496	209 705	D
322	Paper mfg	-	17	13	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	16	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	9	8	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	6	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	128	32	3 084	101 629	2 088	3 992	53 961	221 785	130 866	351 713	14 802
3231	Printing & related support activities	1	128	32	3 084	101 629	2 088	3 992	53 961	221 785	130 866	351 713	14 802
32311	Printing	1	107	26	2 763	92 352	1 866	3 579	48 528	207 025	126 435	332 407	14 072
323110	Commercial lithographic printing ..	1	55	20	1 795	61 382	1 245	2 430	34 534	118 255	78 692	195 476	10 704
325	Chemical mfg	1	47	27	2 105	77 433	1 110	2 265	35 096	233 290	159 620	378 117	11 956
3251	Basic chemical mfg	-	9	5	972	32 604	475	942	14 595	107 833	29 250	123 950	5 672
32519	Other basic organic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	2	25	14	1 366	41 321	944	1 991	22 544	103 726	74 690	178 524	13 432
3261	Plastics product mfg	1	24	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	18	12	1 136	34 725	749	1 645	17 778	84 054	55 952	139 935	D
326199	All other plastics product mfg	2	17	12	g	D	D	D	D	D	D	D	10 224
331	Primary metal mfg	-	25	20	3 481	102 844	2 893	5 840	74 595	217 607	168 620	388 049	21 283
3315	Foundries	-	17	17	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	9	9	g	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	-	5	5	1 292	36 661	1 135	2 228	29 918	74 718	40 811	117 165	D
33152	Nonferrous metal foundries	-	8	8	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	187	57	7 471	264 726	5 594	10 497	172 327	574 043	410 061	983 554	48 035
3321	Forging & stamping	-	14	10	1 032	41 095	716	1 192	27 297	72 758	74 732	146 217	9 068
33211	Forging & stamping	-	14	10	1 032	41 095	716	1 192	27 297	72 758	74 732	146 217	9 068
332111	Iron & steel forging	-	3	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	33	11	1 518	51 801	1 111	2 393	33 807	103 599	101 307	204 766	8 317
33231	Plate work & fabricated structural product mfg ..	-	13	5	571	17 880	430	875	12 548	46 004	63 741	109 701	1 336
33232	Ornamental & architectural metal products mfg	-	20	6	947	33 921	681	1 518	21 259	57 595	37 566	95 065	6 981
332322	Sheet metal work mfg ..	-	10	2	690	24 988	513	1 178	16 665	40 316	26 602	66 367	D
3325	Hardware mfg	-	4	2	g	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	4	2	g	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	4	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MILWAUKEE, WI *— Con.												
	Manufacturing— Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	58	10	f	D	D	D	D	D	D	D	5 368
33271	Machine shops	—	50	8	752	25 118	541	1 124	16 173	53 462	25 543	77 656	4 334
332710	Machine shops	—	50	8	752	25 118	541	1 124	16 173	53 462	25 543	77 656	4 334
3328	Coating, engraving, heat treating, & allied activities.	—	46	15	997	27 505	798	1 543	18 245	57 987	17 176	75 244	5 029
33281	Coating, engraving, heat treating, & allied activities	—	46	15	997	27 505	798	1 543	18 245	57 987	17 176	75 244	5 029
332813	Electroplating, plating, polishing, anodizing, & coloring	—	25	8	587	15 590	482	912	10 240	29 039	11 189	40 317	2 732
3329	Other fabricated metal product mfg	—	14	4	503	21 326	294	653	9 896	82 726	43 152	132 378	4 057
333	Machinery mfg	—	97	44	5 509	232 953	3 530	7 003	134 812	554 107	365 054	907 698	43 144
3331	Agriculture, construction, & mining machinery mfg	—	6	5	744	33 978	443	945	17 310	117 438	104 497	222 749	6 473
3335	Metalworking machinery mfg	1	31	12	813	37 038	583	1 350	26 526	76 024	39 026	113 652	4 196
33351	Metalworking machinery mfg	1	31	12	813	37 038	583	1 350	26 526	76 024	39 026	113 652	4 196
3336	Engine, turbine, & power transmission equipment mfg	—	10	5	2 156	89 048	1 482	2 679	55 239	198 697	109 415	302 858	25 584
33361	Engine, turbine, & power transmission equipment mfg	—	10	5	2 156	89 048	1 482	2 679	55 239	198 697	109 415	302 858	25 584
333612	Speed changer, industrial high-speed drive, & gear mfg	—	4	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	28	12	930	37 898	480	944	16 831	78 630	53 669	132 986	4 479
33399	All other general-purpose machinery mfg	—	18	8	704	26 265	354	669	11 518	56 052	27 624	84 530	D
334	Computer & electronic product mfg	—	36	14	3 071	139 369	1 332	2 561	35 777	300 756	189 471	494 065	15 194
3344	Semiconductor & other electronic component mfg	—	13	7	632	21 034	394	794	8 960	44 710	40 709	85 376	2 794
33441	Semiconductor & other electronic component mfg	—	13	7	632	21 034	394	794	8 960	44 710	40 709	85 376	2 794
3345	Navigational, measuring, medical, & control instruments mfg	—	13	6	2 377	116 524	899	1 700	26 016	252 083	145 693	401 636	D
33451	Navigational, measuring, medical, & control instruments mfg	—	13	6	2 377	116 524	899	1 700	26 016	252 083	145 693	401 636	D
334510	Electromedical & electrotherapeutic apparatus mfg	—	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	24	14	7 121	260 382	5 544	8 521	159 162	706 090	814 611	1 510 245	50 833
3353	Electrical equipment mfg ..	—	13	8	6 006	226 998	4 741	6 886	138 678	586 934	738 429	1 315 250	D
33531	Electrical equipment mfg	—	13	8	6 006	226 998	4 741	6 886	138 678	586 934	738 429	1 315 250	D
335312	Motor & generator mfg	—	3	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	—	8	6	5 422	205 325	4 374	6 148	127 109	560 418	708 333	1 252 654	D
3359	Other electrical equipment & component mfg	—	6	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	17	9	1 711	58 822	1 119	2 345	40 282	80 386	119 106	214 627	22 031
3363	Motor vehicle parts mfg ...	—	11	6	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	—	3	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	3	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	38	8	511	17 288	364	739	10 216	31 100	24 398	56 087	D
339	Miscellaneous mfg	1	60	15	1 502	42 887	1 080	1 823	25 479	85 870	84 128	170 464	12 769
3399	Other miscellaneous mfg ..	—	41	14	1 320	36 529	1 008	1 715	23 912	74 255	76 937	151 072	12 406
33999	All other miscellaneous mfg	—	8	3	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	—	2	2	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MONROE, WI													
31-33	Manufacturing	2	39	16	1 948	50 024	1 570	2 750	35 105	269 383	266 129	532 980	5 975
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	1	1	f	D	D	D	D	D	D	D	D
MOSINEE, WI													
31-33	Manufacturing	-	10	6	2 270	68 813	2 074	4 250	58 644	211 576	190 323	398 285	21 539
321	Wood product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	g	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
MOUNT PLEASANT TOWN, WI													
31-33	Manufacturing	-	28	11	2 888	133 163	1 946	4 004	78 498	1 400 834	736 685	2 148 270	36 722
325	Chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	-	2	2	g	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
MUKWONAGO, WI *													
31-33	Manufacturing	1	25	5	642	23 468	445	1 006	12 727	83 578	43 086	125 737	15 047
MUSKEGO, WI													
31-33	Manufacturing	-	51	17	1 241	38 277	922	1 901	23 809	92 561	90 736	182 552	5 684
332	Fabricated metal product mfg	-	21	8	557	18 049	426	860	11 998	47 691	29 894	77 312	2 878

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NEENAH, WI													
31-33	Manufacturing	-	71	42	8 481	290 425	6 204	13 002	195 294	966 968	964 661	1 918 879	62 766
322	Paper mfg	-	12	11	2 207	91 780	1 694	3 506	64 866	451 097	352 737	796 752	22 643
3221	Pulp, paper, & paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	10	9	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	5	5	674	26 856	520	992	17 726	222 178	119 261	338 777	D
323	Printing & related support activities	-	14	11	1 423	50 069	942	1 932	30 107	94 159	69 193	162 855	5 430
3231	Printing & related support activities	-	14	11	1 423	50 069	942	1 932	30 107	94 159	69 193	162 855	5 430
32311	Printing	-	10	7	1 118	38 812	704	1 391	21 763	75 473	60 173	135 087	D
323110	Commercial lithographic printing ..	-	4	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	4	4	731	24 881	612	1 410	18 868	91 857	95 958	188 091	8 235
3261	Plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	1	f	D	D	D	D	D	D	D	D
3315	Foundries	-	3	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	3	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	1	1	g	D	D	D	D	D	D	D	D
NEILLSVILLE, WI													
31-33	Manufacturing	-	9	5	f	D	D	D	D	D	D	D	D
NEKOOSA, WI													
31-33	Manufacturing	-	7	3	879	41 617	703	1 408	32 604	103 867	129 109	227 483	D
322	Paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
NEW BERLIN, WI													
31-33	Manufacturing	-	150	78	6 647	259 033	4 721	9 633	149 011	732 623	566 298	1 299 782	35 327
323	Printing & related support activities	3	25	12	736	29 586	557	1 097	20 128	55 201	22 627	78 445	1 892
3231	Printing & related support activities	3	25	12	736	29 586	557	1 097	20 128	55 201	22 627	78 445	1 892
332	Fabricated metal product mfg	-	41	21	1 341	49 969	1 077	2 341	33 325	114 339	57 318	169 247	7 563
333	Machinery mfg	-	36	22	1 831	78 404	1 250	2 557	43 182	175 554	128 458	311 548	11 227
3332	Industrial machinery mfg ..	-	10	7	527	20 956	354	817	11 791	48 651	47 676	102 562	2 578
33329	Other industrial machinery mfg	-	10	7	527	20 956	354	817	11 791	48 651	47 676	102 562	2 578
3335	Metalworking machinery mfg	2	15	8	653	25 748	511	979	17 007	45 418	23 842	70 955	2 524
33351	Metalworking machinery mfg	2	15	8	653	25 748	511	979	17 007	45 418	23 842	70 955	2 524
334	Computer & electronic product mfg	-	9	6	978	36 925	707	1 395	23 180	228 536	167 858	388 001	4 391
3345	Navigational, measuring, medical, & control instruments mfg	-	5	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	5	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NEW BERLIN, WI—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	6	4	f	D	D	D	D	D	D	D	2 381
3353	Electrical equipment mfg ..	-	5	4	606	25 618	295	663	8 235	54 840	99 734	155 494	D
33531	Electrical equipment mfg	-	5	4	606	25 618	295	663	8 235	54 840	99 734	155 494	D
335314	Relay & industrial control mfg	-	5	4	606	25 618	295	663	8 235	54 840	99 734	155 494	D
	NEW HOLSTEIN, WI												
31-33	Manufacturing	-	10	7	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	4	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
	NEW LONDON, WI *												
31-33	Manufacturing	-	24	11	2 505	77 156	2 074	4 514	62 746	286 015	387 899	668 327	12 332
311	Food mfg	-	3	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & 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
	NEW RICHMOND, WI												
31-33	Manufacturing	-	18	8	1 268	45 074	797	1 585	23 666	83 857	80 304	164 146	8 615
	OAK CREEK, WI												
31-33	Manufacturing	-	65	43	7 192	300 163	5 108	10 228	198 045	1 105 457	1 431 656	2 537 013	74 473
325	Chemical mfg	-	9	5	977	42 025	413	961	15 893	213 099	189 462	403 613	11 218
3255	Paint, coating, & adhesive mfg	-	4	4	909	39 643	379	887	14 833	199 543	179 488	379 135	D
32551	Paint & coating mfg	-	2	2	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	10	802	24 476	625	1 196	16 819	48 360	32 320	79 755	2 770
333	Machinery mfg	-	5	4	1 035	44 118	599	1 185	22 479	105 963	69 029	162 251	3 539
3339	Other general-purpose machinery mfg	-	3	3	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	5	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	4	4	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
	OCONOMOWOC, WI												
31-33	Manufacturing	-	54	24	2 079	65 706	1 492	3 039	40 631	182 766	173 914	358 280	9 807
332	Fabricated metal product mfg	-	16	8	682	21 977	551	1 250	16 374	50 646	68 018	120 138	2 595
	OCONTO, WI												
31-33	Manufacturing	-	14	8	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ONALASKA, WI													
31-33	Manufacturing	-	23	10	1 091	26 598	854	1 731	18 342	61 422	48 273	106 747	3 529
OSHKOSH, WI													
31-33	Manufacturing	-	114	65	8 692	291 786	6 352	13 434	189 530	718 814	1 150 777	1 860 490	67 575
321	Wood product mfg	-	4	3	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	-	3	2	f	D	D	D	D	D	D	D	D
32191	Millwork	-	2	2	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	9	5	f	D	D	D	D	D	D	D	3 233
3222	Converted paper product mfg	-	8	4	644	24 249	429	971	13 439	57 978	63 301	122 565	D
326	Plastics & rubber products mfg	-	10	10	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	9	9	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	7	7	g	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	5	5	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	26	15	726	19 795	540	1 096	13 292	42 577	27 628	70 385	6 452
335	Electrical equipment, appliance, & component mfg	-	5	5	890	26 540	651	1 215	16 995	87 883	42 899	132 706	D
3353	Electrical equipment mfg	-	5	5	890	26 540	651	1 215	16 995	87 883	42 899	132 706	D
33531	Electrical equipment mfg	-	5	5	890	26 540	651	1 215	16 995	87 883	42 899	132 706	D
335311	Power, distribution, & specialty transformer mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	4	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D
PARK FALLS, WI													
31-33	Manufacturing	-	14	6	891	26 580	706	1 302	18 979	92 075	75 465	167 950	6 384
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
PESHIGO, WI													
31-33	Manufacturing	1	14	8	1 060	30 858	837	1 620	21 808	61 151	63 951	125 536	5 198
PEWAUKEE TOWN, WI													
31-33	Manufacturing	-	54	23	2 656	104 696	1 894	3 846	66 083	239 819	241 057	476 332	17 951
323	Printing & related support activities	-	13	9	1 066	39 640	872	1 800	31 226	67 471	58 936	125 853	3 139
3231	Printing & related support activities	-	13	9	1 066	39 640	872	1 800	31 226	67 471	58 936	125 853	3 139
32311	Printing	-	8	5	872	30 318	751	1 498	26 233	48 866	54 043	102 500	2 141
323110	Commercial lithographic printing	-	5	3	f	D	D	D	D	D	D	D	1 830
332	Fabricated metal product mfg	-	17	5	780	34 206	509	1 138	17 898	85 887	61 057	146 443	10 829
3329	Other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	-	1	1	f	D	D	D	D	D	D	D	D
PEWAUKEE, WI													
31-33	Manufacturing	1	35	11	1 366	47 244	966	2 055	28 124	158 265	95 570	253 330	7 073

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PLEASANT PRAIRIE, WI													
31-33	Manufacturing	-	19	16	2 165	75 592	1 592	3 170	45 931	271 600	226 261	493 777	13 242
332	Fabricated metal product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	2	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	2	f	D	D	D	D	D	D	D	D
PLOVER, WI													
31-33	Manufacturing	6	22	12	2 223	57 502	1 955	3 648	46 544	279 598	201 144	478 736	29 304
311	Food mfg	6	5	5	1 835	46 264	1 651	3 008	38 137	248 584	167 976	416 289	24 918
3114	Fruit & vegetable preserving & specialty food mfg	7	4	4	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	9	2	2	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	2	2	g	D	D	D	D	D	D	D	D
PLYMOUTH, WI													
31-33	Manufacturing	4	22	9	1 869	59 718	1 138	2 286	28 651	268 690	454 229	721 919	D
311	Food mfg	4	4	3	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	4	3	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	4	3	3	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	4	3	3	g	D	D	D	D	D	D	D	D
PORTAGE, WI													
31-33	Manufacturing	-	28	10	1 654	47 235	1 366	2 703	33 070	180 932	307 226	484 088	7 675
PORT WASHINGTON, WI													
31-33	Manufacturing	1	26	11	2 540	94 961	1 647	3 561	52 142	325 132	308 063	626 952	16 337
333	Machinery mfg	1	7	5	1 606	63 896	1 021	2 219	35 696	228 251	239 280	463 222	12 004
3331	Agriculture, construction, & mining machinery mfg	1	4	4	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	2	2	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	3	2	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	3	2	2	f	D	D	D	D	D	D	D	D
PRAIRIE DU CHIEN, WI													
31-33	Manufacturing	-	14	9	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327910	Abrasive product mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RACINE, WI													
31-33	Manufacturing	-	219	79	9 065	322 313	6 388	12 207	187 605	1 118 610	731 239	1 845 040	81 906
331	Primary metal mfg	-	10	6	f	D	D	D	D	D	D	D	D
3315	Foundries	-	8	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	68	29	2 530	85 075	1 801	3 636	50 097	190 038	132 059	323 750	15 085
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	31	10	757	23 231	599	1 266	15 861	47 769	20 096	67 962	D
33271	Machine shops	1	25	8	607	18 618	471	1 013	13 018	38 289	17 335	55 618	3 063
332710	Machine shops	1	25	8	607	18 618	471	1 013	13 018	38 289	17 335	55 618	3 063
3329	Other fabricated metal product mfg	-	8	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	42	12	2 343	98 121	1 585	3 186	61 046	329 098	344 492	663 569	41 125
3331	Agriculture, construction, & mining machinery mfg.	-	7	4	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	4	3	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	16	6	1 364	44 962	1 046	1 547	22 376	391 913	91 714	484 999	10 852
3352	Household appliance mfg.	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg.	-	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
REEDSBURG, WI													
31-33	Manufacturing	-	31	20	2 456	68 853	1 997	3 936	49 520	235 906	222 567	461 684	21 992
326	Plastics & rubber products mfg	-	4	4	521	12 005	449	949	9 559	81 083	41 327	123 945	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
RHINELANDER, WI													
31-33	Manufacturing	-	20	8	2 080	68 386	1 843	4 183	56 250	151 695	195 646	343 813	14 809
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
RICE LAKE, WI													
31-33	Manufacturing	5	24	9	2 071	52 345	1 785	3 517	40 719	121 212	111 976	230 890	7 388
332	Fabricated metal product mfg	5	3	2	f	D	D	D	D	D	D	D	D
3325	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	9	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RICHLAND CENTER, WI													
31-33	Manufacturing	-	19	7	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	1	1	f	D	D	D	D	D	D	D	D
RIPON, WI													
31-33	Manufacturing	-	21	9	2 937	74 500	2 313	5 211	50 876	181 066	199 452	379 545	12 147
311	Food mfg	2	5	4	892	23 867	752	1 497	18 255	57 290	61 987	119 814	D
3118	Bakeries & tortilla mfg	-	3	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D
335224	Household laundry equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
RIVER FALLS, WI *													
31-33	Manufacturing	-	18	7	628	14 668	508	824	9 585	29 930	35 465	65 943	3 730
ROTHSCHILD, WI													
31-33	Manufacturing	-	7	5	1 102	44 828	788	1 710	30 208	152 271	176 011	328 684	13 342
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
ST. FRANCIS, WI													
31-33	Manufacturing	-	22	8	993	30 908	705	1 363	20 439	91 623	68 918	159 303	5 746
339	Miscellaneous mfg	-	2	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	2	2	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg	-	2	2	f	D	D	D	D	D	D	D	D
SAUK CITY, WI													
31-33	Manufacturing	-	11	4	538	15 036	360	692	9 113	53 803	82 699	134 530	2 670
SAUKVILLE, WI													
31-33	Manufacturing	2	20	12	1 090	42 595	852	1 963	29 149	258 424	193 234	451 379	15 412
SHAWANO, WI													
31-33	Manufacturing	1	24	13	1 144	27 909	896	1 708	17 846	71 230	102 789	174 479	6 745

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SHEBOYGAN, WI													
31-33	Manufacturing	-	99	55	7 887	260 619	5 595	11 298	149 271	664 045	743 999	1 415 555	69 948
322	Paper mfg	-	8	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	8	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	9	8	577	19 109	447	970	12 626	42 186	33 377	77 646	3 669
3261	Plastics product mfg	-	9	8	577	19 109	447	970	12 626	42 186	33 377	77 646	3 669
331	Primary metal mfg	-	4	4	f	D	D	D	D	D	D	D	29 233
3315	Foundries	-	4	4	f	D	D	D	D	D	D	D	29 233
33152	Nonferrous metal foundries	-	3	3	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	7	g	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332214	Kitchen utensil, pot, & pan mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	3	9	5	1 321	44 811	705	1 293	19 320	106 087	97 898	205 234	6 727
3339	Other general-purpose machinery mfg	3	3	3	g	D	D	D	D	D	D	D	5 945
33399	All other general-purpose machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	6	5	f	D	D	D	D	D	D	D	D
SHEBOYGAN FALLS, WI													
31-33	Manufacturing	-	36	14	3 990	135 195	3 001	5 434	88 038	367 966	349 264	726 190	29 930
311	Food mfg	-	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	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
326	Plastics & rubber products mfg	-	7	5	1 638	63 133	1 261	1 952	44 229	168 837	118 799	291 677	D
3261	Plastics product mfg	-	7	5	1 638	63 133	1 261	1 952	44 229	168 837	118 799	291 677	D
32619	Other plastics product mfg	-	4	2	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	4	2	g	D	D	D	D	D	D	D	D
SLINGER, WI													
31-33	Manufacturing	1	22	10	676	19 155	534	984	12 402	69 121	45 962	109 524	3 983
SOUTH MILWAUKEE, WI													
31-33	Manufacturing	-	26	7	2 077	90 543	1 321	2 825	54 622	204 825	214 770	429 931	7 669
333	Machinery mfg	-	4	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
SPARTA, WI													
31-33	Manufacturing	-	23	8	1 451	33 382	948	1 858	17 911	88 950	88 372	175 384	3 182
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
STEVENS POINT, WI													
31-33	Manufacturing	-	37	12	2 252	78 923	1 771	3 576	55 186	192 516	231 190	422 403	56 451
323	Printing & related support activities.....	-	4	3	509	21 379	409	908	13 586	39 048	31 004	69 492	D
3231	Printing & related support activities.....	-	4	3	509	21 379	409	908	13 586	39 048	31 004	69 492	D
32311	Printing	-	4	3	509	21 379	409	908	13 586	39 048	31 004	69 492	D
STOUGHTON, WI													
31-33	Manufacturing	-	20	5	1 720	42 882	1 479	3 124	33 872	131 995	230 009	371 068	3 933
336	Transportation equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
STURGEON BAY, WI													
31-33	Manufacturing	-	26	14	2 017	55 258	1 642	3 255	37 857	122 825	115 264	242 267	9 471
333	Machinery mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
STURTEVANT, WI													
31-33	Manufacturing	4	16	9	1 634	47 986	1 091	2 661	25 911	85 849	101 411	186 114	16 043
331	Primary metal mfg.....	9	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	9	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	9	2	2	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	9	2	2	f	D	D	D	D	D	D	D	D
SUN PRAIRIE, WI													
31-33	Manufacturing	1	24	8	1 053	34 096	810	1 608	24 287	95 504	93 170	188 772	5 150
SUPERIOR, WI													
31-33	Manufacturing	-	45	11	g	D	D	D	D	D	D	D	9 113
SUSSEX, WI													
31-33	Manufacturing	1	33	15	3 575	106 151	3 083	6 467	85 282	484 962	343 813	813 378	24 479
323	Printing & related support activities.....	-	5	3	g	D	D	D	D	D	D	D	2 408
3231	Printing & related support activities.....	-	5	3	g	D	D	D	D	D	D	D	2 408
32311	Printing	-	4	3	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	2	g	D	D	D	D	D	D	D	D
TOMAH, WI													
31-33	Manufacturing	-	18	9	1 572	38 208	1 354	2 406	29 796	165 212	263 427	425 451	4 027
333	Machinery mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
TWO RIVERS, WI													
31-33	Manufacturing	-	30	18	2 293	70 009	1 664	3 423	43 702	156 646	107 945	264 634	7 650
335	Electrical equipment, appliance, & component mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
339111	Laboratory apparatus & furniture mfg.....	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	UNION GROVE, WI												
	Manufacturing	-	7	5	624	18 323	492	911	13 728	45 233	37 242	81 358	2 200
	VERONA, WI												
31-33	Manufacturing	-	18	10	889	23 221	655	1 305	14 710	39 880	22 751	62 233	3 887
	WATERFORD, WI												
31-33	Manufacturing	-	7	4	622	17 818	408	789	8 898	42 364	34 511	75 466	895
	WATERLOO, WI												
31-33	Manufacturing	1	9	8	1 072	31 995	904	1 969	24 848	73 651	49 730	122 165	2 246
323	Printing & related support activities.....	-	2	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	2	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	2	f	D	D	D	D	D	D	D	D
	WATERTOWN, WI *												
31-33	Manufacturing	-	61	25	3 471	99 116	2 627	5 351	63 893	240 119	459 520	706 103	17 618
333	Machinery mfg	-	8	6	1 089	31 733	819	1 669	21 195	71 115	73 871	145 638	2 718
334	Computer & electronic product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
	WAUKESHA, WI												
31-33	Manufacturing	-	195	79	9 902	394 154	6 539	13 208	230 941	1 361 225	1 218 230	2 578 397	63 260
311	Food mfg	-	7	4	f	D	D	D	D	D	D	D	2 530
323	Printing & related support activities.....	4	26	8	623	22 373	490	1 007	15 187	39 109	24 688	63 405	2 661
3231	Printing & related support activities.....	4	26	8	623	22 373	490	1 007	15 187	39 109	24 688	63 405	2 661
32311	Printing	5	22	6	526	19 215	407	835	12 503	32 681	24 084	56 481	2 352
331	Primary metal mfg	-	10	7	g	D	D	D	D	D	D	D	13 271
3315	Foundries	-	10	7	g	D	D	D	D	D	D	D	13 271
33151	Ferrous metal foundries ..	-	6	5	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	-	5	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	51	18	1 181	41 450	813	1 652	23 855	87 571	49 142	137 213	3 549
333	Machinery mfg	2	20	12	2 063	88 328	1 057	2 019	42 448	243 577	158 986	398 125	20 694
3336	Engine, turbine, & power transmission equipment mfg	-	3	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	3	3	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	8	6	f	D	D	D	D	D	D	D	2 571
3345	Navigational, measuring, medical, & control instruments mfg	-	3	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	11	4	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	8	4	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	8	4	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	4	4	g	D	D	D	D	D	D	D	D

Table 4. Industry Statistics for Places: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WAUNAKEE, WI													
31-33	Manufacturing	-	23	13	1 438	40 142	1 132	2 243	25 845	82 187	113 962	191 969	13 728
337	Furniture & related product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	1	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
WAUPACA, WI													
31-33	Manufacturing	-	25	10	2 462	84 018	2 164	4 346	70 223	305 572	248 245	551 147	9 764
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	g	D	D	D	D	D	D	D	D
WAUPUN, WI *													
31-33	Manufacturing	-	15	7	1 087	32 615	787	1 678	22 675	76 471	255 235	333 833	11 984
332	Fabricated metal product mfg	-	6	5	f	D	D	D	D	D	D	D	D
WAUSAU, WI													
31-33	Manufacturing	-	83	38	8 190	228 838	6 401	12 082	150 772	564 657	631 959	1 192 076	37 425
321	Wood product mfg	-	7	6	1 681	43 034	1 426	2 937	32 373	69 351	74 291	143 806	D
3219	Other wood product mfg ...	-	6	6	g	D	D	D	D	D	D	D	D
32191	Millwork	-	2	2	g	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	5	5	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	5	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	4	4	646	21 190	522	1 062	15 679	68 262	71 522	139 607	3 031
332	Fabricated metal product mfg	-	17	11	3 472	103 829	2 579	4 401	63 776	274 660	177 996	446 538	18 044
3322	Cutlery & handtool mfg	1	3	2	g	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	1	3	2	g	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg	-	2	1	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	8	6	2 181	73 388	1 497	2 920	42 208	166 717	121 876	286 701	13 007
33232	Ornamental & architectural metal products mfg	-	7	5	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	3	2	g	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg ..	-	4	3	g	D	D	D	D	D	D	D	D
WAUWATOSA, WI													
31-33	Manufacturing	-	81	24	7 766	342 765	4 912	10 612	204 560	877 711	561 087	1 388 761	59 195
332	Fabricated metal product mfg	-	9	6	952	27 446	745	1 530	20 872	68 642	36 065	105 825	1 460
333	Machinery mfg	-	5	2	h	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	19	6	574	21 163	195	413	5 783	39 975	11 350	51 483	703

Table 4. Industry Statistics for Places: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WEST ALLIS, WI													
31-33	Manufacturing	1	145	44	7 537	226 375	5 315	8 738	129 976	422 228	430 013	864 709	25 155
311	Food mfg	-	13	4	652	14 706	531	1 236	11 925	29 356	18 230	47 629	D
3118	Bakeries & tortilla mfg	-	9	4	638	14 306	520	1 223	11 708	28 643	17 211	45 847	D
31181	Bread & bakery product mfg	-	9	4	638	14 306	520	1 223	11 708	28 643	17 211	45 847	D
311812	Commercial bakeries ..	-	3	3	583	13 503	489	1 181	11 309	26 849	16 235	43 075	D
323	Printing & related support activities	2	36	7	2 281	34 475	2 019	1 872	26 464	69 689	29 162	98 760	2 818
3231	Printing & related support activities	2	36	7	2 281	34 475	2 019	1 872	26 464	69 689	29 162	98 760	2 818
32311	Printing	2	34	6	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	15	4	2 084	27 100	1 881	1 604	22 009	53 283	19 283	72 547	1 803
331	Primary metal mfg	-	5	4	1 009	37 521	859	1 781	31 634	80 602	75 623	155 266	4 625
3315	Foundries	-	5	4	1 009	37 521	859	1 781	31 634	80 602	75 623	155 266	4 625
33151	Ferrous metal foundries ..	-	4	4	f	D	D	D	D	D	D	D	4 625
331511	Iron foundries	-	4	4	f	D	D	D	D	D	D	D	4 625
332	Fabricated metal product mfg	-	30	8	685	24 873	486	996	15 773	46 266	35 277	80 801	2 919
333	Machinery mfg	-	21	7	1 595	70 993	648	1 385	24 872	95 778	193 580	301 519	5 694
3336	Engine, turbine, & power transmission equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	14	6	618	16 384	466	901	9 013	32 867	17 678	50 386	531
3399	Other miscellaneous mfg ..	-	11	5	f	D	D	D	D	D	D	D	D
WEST BEND, WI													
31-33	Manufacturing	-	65	24	4 972	150 856	3 583	6 856	89 068	327 249	255 590	586 545	23 670
316	Leather & allied product mfg ..	-	4	2	f	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	-	4	2	f	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	-	4	2	f	D	D	D	D	D	D	D	D
316993	Personal leather good (except women's handbag & purse) mfg	-	3	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	11	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	11	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	10	4	g	D	D	D	D	D	D	D	D
323113	Commercial screen printing	-	3	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	20	7	1 143	40 468	757	1 516	22 024	72 012	51 618	126 050	8 793
335	Electrical equipment, appliance, & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
WEST MILWAUKEE, WI													
31-33	Manufacturing	-	33	20	3 558	163 855	2 360	4 844	108 534	539 422	404 246	952 885	34 280
333	Machinery mfg	-	7	6	2 006	98 343	1 208	2 461	64 152	286 610	169 905	469 851	16 197
3331	Agriculture, construction, & mining machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
334517	Irradiation apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D

Table 4. Industry Statistics for Places: 1997—Con.

[Includes data for industry groups and industries with 500 employees or more. For information on geographic areas followed by * and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WESTON TOWN, WI													
31-33	Manufacturing	-	19	10	840	20 490	601	1 194	13 934	43 618	32 673	75 600	5 212
WEST SALEM, WI													
31-33	Manufacturing	-	13	6	1 036	21 127	812	1 673	13 332	35 217	51 678	86 233	4 104
315	Apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
WHITEWATER, WI *													
31-33	Manufacturing	-	10	6	869	24 205	561	1 174	13 856	67 792	68 301	134 894	2 068
WISCONSIN RAPIDS, WI													
31-33	Manufacturing	-	26	10	2 881	129 609	2 455	4 869	94 462	395 393	526 475	912 496	D
322	Paper mfg	-	3	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	2	2	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D

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.

²Industries 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: c-100 to 249 employees; e-250 to 499 employees; f-500 to 999 employees; g-1,000 to 2,499 employees, h-2,500 to 4,999 employees; i-5,000 to 9,999 employees; j-10,000 to 24,999 employees; k-25,000 to 49,999 employees; l-50,000 to 99,999 employees; m-100,000 employees or more.

Table 5. Detailed Statistics for the State: 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Value	Item	Value
WISCONSIN		WISCONSIN—Con.	
Companies ¹ number..	8 933	Quantity of electricity purchased for heat and power 1,000 kWh..	22 597 679
		Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	1 972 370
All establishments number..	9 936	Total value of shipments \$1,000..	117 382 992
Establishments with 1 to 19 employees number..	6 031	Value of resales \$1,000..	5 336 259
Establishments with 20 to 99 employees number..	2 654	Value added \$1,000..	54 947 083
Establishments with 100 employees or more number..	1 251	Total inventories, beginning of year \$1,000..	12 718 950
All employees number..	562 479	Finished goods inventories, beginning of year \$1,000..	4 849 598
Total compensation ² \$1,000..	23 557 212	Work-in-process inventories, beginning of year \$1,000..	3 181 982
Annual payroll \$1,000..	18 766 395	Materials and supplies inventories, beginning of year \$1,000..	4 687 370
Total fringe benefits \$1,000..	4 790 817	Total inventories, end of year \$1,000..	12 666 451
Production workers, average for year number..	416 254	Finished goods inventories, end of year \$1,000..	4 906 632
Production workers on March 12 number..	410 066	Work-in-process inventories, end of year \$1,000..	3 178 072
Production workers on May 12 number..	414 233	Materials and supplies inventories, end of year \$1,000..	4 581 747
Production workers on August 12 number..	423 811	Gross book value of total assets at beginning of year \$1,000..	41 021 015
Production workers on November 12 number..	416 906	Total capital expenditures (new and used) \$1,000..	4 092 922
Production-worker hours 1,000..	837 444	Capital expenditures for buildings and other structures (new and used) \$1,000..	673 048
Production-worker wages \$1,000..	11 952 570	Capital expenditures for machinery and equipment (new and used) \$1,000..	3 419 874
Total cost of materials \$1,000..	62 446 845	Total retirements ² \$1,000..	1 143 206
Cost of materials, parts, containers, etc., consumed \$1,000..	55 632 722	Gross book value of total assets at end of year \$1,000..	43 970 731
Cost of resales \$1,000..	3 974 028	Total depreciation during year ² \$1,000..	2 777 149
Cost of fuels \$1,000..	690 715	Total rental payments ² \$1,000..	768 393
Cost of purchased electricity \$1,000..	907 260	Buildings and other structures rental payments ² \$1,000..	364 500
Cost of contract work \$1,000..	1 242 120	Machinery and equipment rental payments ² \$1,000..	403 891

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

²These items are collected in the ASM and estimated for the remaining establishments.

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

Respondents were asked to report their beginning-of-year and end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). Beginning in 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Inventory Data by Stage of Fabrication

Total inventories and three detailed components (1) finished goods, (2) work-in-process, and (3) materials, supplies, fuels, etc., were collected.

When using inventory data by stage of fabrication for “all industries” and at the three-digit subsector level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by an establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for all publication levels.

COST OF MATERIALS

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

Included in this item are:

1. Cost of parts, components, containers, etc.—Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
2. Cost of products bought and sold in the same condition.

3. Cost of fuels consumed for heat and power—Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term “Contract Work” refers to the fee a company pays to another company to perform a service.

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 paper mills in the paper and allied products 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 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 which 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.

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.

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 which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. 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

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

All Other Employees

This item 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.

FRINGE BENEFITS

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.

GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets including inventories and intangible assets, such as timber and mineral rights.

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. Accordingly, the value of assets at the end of the year includes the value of construction in progress.

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.

NUMBER OF ESTABLISHMENTS AND COMPANIES

A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location

where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

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.

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).

PRODUCTION-WORKER HOURS

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

QUANTITY OF ELECTRIC ENERGY CONSUMED 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.

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.

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.

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used expenditures for (1) permanent additions and major alterations to manufacturing establishments and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies and

plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

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.

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

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

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

1. Reported contract work—Receipts for work or services that a plant performed for others on their materials.
2. Value of resales—Sales of products brought and sold without further manufacture, processing, or assembly.
3. Other miscellaneous receipts—Such as repair work, installation, sales of scrap, etc.

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 paper mills in the paper and allied products 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 which 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.

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 NAICS industry group includes establishments classified in NAICS Industry 31111, Animal Food Manufacturing.

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.

The data published with NAICS code 311111 include the following SIC industry:

2047 Dog and cat food

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.

The data published with NAICS code 311119 include the following SIC industry:

2048 Prepared feeds and feed ingredients for animals and fowls, except dogs and cats (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311119 do not include establishments primarily engaged in the custom grinding of grain. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3112 Grain and Oilseed Milling

This NAICS industry group includes establishments classified in the following NAICS Industries: 31121, Flour Milling and Malt Manufacturing; 31122, Starch and Vegetable Fats and Oils Manufacturing; and 31123, Breakfast Cereal Manufacturing.

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

The data published with NAICS code 311211 include the following SIC industries:

2034 Dehydrated fruits, vegetables, and soup mixes (pt)

2041 Flour and other grain mill products

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.

The data published with NAICS code 311212 include the following SIC industry:

2044 Rice milling

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311212 do not include rice mills primarily engaged in packaging uncooked rice with other ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311213 Malt Manufacturing

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

The data published with NAICS code 311213 include the following SIC industry:

2083 Malt

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).

The data published with NAICS code 311221 include the following SIC industry:

2046 Wet corn milling

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.

The data published with NAICS code 311222 include the following SIC industry:

2075 Soybean oil mills (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311222 do not include establishments primarily engaged in the processing of

soybean oil from soybeans crushed in the same establishment. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311223 include the following SIC industries:

2074 Cottonseed oil mills (pt)

2076 Vegetable oil mills, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311223 do not include establishments primarily engaged in the processing of vegetable oils, except soybean oil, from oilseeds crushed in the same establishment. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311225 include the following SIC industries:

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

2076 Vegetable oil mills, n.e.c. (pt)

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311225 do not include establishments primarily engaged in refining and/or blending corn oil from purchased oil. The data include establishments primarily engaged in the manufacture of vegetable oil foots. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311230 include the following SIC industry:

2043 Cereal breakfast foods (pt)

3113 Sugar and Confectionery Product Manufacturing

This industry group comprises (1) establishments that 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.

The data published with NAICS code 311312 include the following SIC industry:

2061 Raw cane sugar

311312 Cane Sugar Refining

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

The data published with NAICS code 311312 include the following SIC industry:

2062 Cane sugar refining

311313 Beet Sugar Manufacturing

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

The data published with NAICS code 311313 include the following SIC industry:

2063 Beet sugar

31132 Chocolate and Confectionery Manufacturing From Cacao Beans

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

311320 Chocolate and Confectionery Manufacturing From Cacao Beans

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

The data published with NAICS code 311320 include the following SIC industries:

2066 Chocolate and cocoa products

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.

The data published with NAICS code 311330 include the following SIC industries:

2064 Candy and other confectionery products and chewing gum (pt)

5441 Candy, nut, and confectionery stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311330 do not include establishments primarily engaged in the manufacture of chocolate products made from purchased chocolate. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3113301 Chocolate and Chocolate-type Confectionery Retail – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type chocolate and chocolate-type confectionery products not for immediate consumption made on the premises from chocolate produced elsewhere.

3113302 Chocolate and Chocolate-type Confectionery – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type chocolate and chocolate-type confectionery products from chocolate produced elsewhere.

31134 Nonchocolate Confectionery Manufacturing

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

311340 Nonchocolate Confectionery Manufacturing

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

The data published with NAICS code 311340 include the following SIC industries:

2064 Candy and other confectionery products and chewing gum (pt)

2099 Food preparations, n.e.c. (pt)

5441 Candy, nut, and confectionery stores (pt)

3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type nonchocolate confectionery products, excluding cough drops, medicated candy, roasted peanuts, unsweetened popcorn and fountain syrup, not for immediate consumption made on the premises.

3113402 Nonchocolate-Type Confectionery Products – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type nonchocolate confectionery products, excluding cough drops, medicated candy, roasted peanuts, unsweetened popcorn and fountain syrup.

3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing

This industry group includes (1) establishments 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.

The data published with NAICS code 311411 include the following SIC industry:

2037 Frozen fruits and vegetables

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.

The data published with NAICS code 311412 include the following SIC industry:

2038 Frozen specialties, n.e.c.

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.

The data published with NAICS code 311421 include the following SIC industries:

2033 Canned fruits and vegetables

2035 Pickles, sauces, and salad dressings (pt)

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.

The data published with NAICS code 311422 include the following SIC industry:

2032 Canned specialties (pt)

311423 Dried and Dehydrated Food Manufacturing

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

The data published with NAICS code 311423 include the following SIC industries:

2034 Dehydrated fruits, vegetables, and soups (pt)

2099 Food preparations, n.e.c. (pt)

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.

The data published with NAICS code 311511 include the following SIC industry:

2026 Fluid milk

311512 Creamery Butter Manufacturing

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

The data published with NAICS code 311512 include the following SIC industry:

2021 Creamery butter

311513 Cheese Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cheese products (except cottage cheese) from raw milk and/or processed milk products and/or (2) manufacturing cheese substitutes from soybean and other nondairy substances.

The data published with NAICS code 311513 include the following SIC industry:

2022 Cheese, natural and processed

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.

The data published with NAICS code 311514 include the following SIC industry:

2023 Dry, condensed and evaporated milk

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311514 do not include establishments primarily engaged in the manufacture of fluid milk processed with ultra-high temperature. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 311520 include the following SIC industry:

2024 Ice cream and frozen desserts

3116 Meat Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31161, Animal Slaughtering and Processing.

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 primary engaged in slaughtering animals (except poultry and small game). Establishments that slaughter and prepare meats are included in this industry.

The data published with NAICS code 311611 include the following SIC industries:

2011 Meat packing plants

2048 Prepared feeds, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311611 do not include establishments primarily engaged in custom slaughtering. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311612 include the following SIC industries:

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

311613 Rendering and Meat Byproduct Processing

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

The data published with NAICS code 311613 include the following SIC industry:

2077 Animal and marine fats and oil (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311613 do not include establishments primarily engaged in manufacturing lard from purchased materials. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311615 include the following SIC industry:

2015 Poultry and egg processing (pt)

3117 Seafood Product Preparation and Packaging

This NAICS industry group includes establishments classified in NAICS Industry 31171, Seafood Product Preparation and Packaging.

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 seafoods; (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 included in this industry.

311711 Seafood Canning

This U.S. industry comprises establishments primarily engaged in (1) canning seafood (including soup) and marine fats and oils and/or (2) smoking, salting, and drying seafoods. Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are included in this industry.

The data published with NAICS code 311711 include the following SIC industries:

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

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; (3) manufacturing frozen seafood; and (4) processing fresh and frozen marine fats and oils.

The data published with NAICS code 311712 include the following SIC industries:

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

3118 Bakeries and Tortilla Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 31181, Bread and Bakery Product Manufacturing; 31182, Cookie, Cracker, and Pasta Manufacturing; and 31183, 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.

The data published with NAICS code 311811 include the following SIC industry:

5461 Retail bakeries (pt)

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.

The data published with NAICS code 311812 include the following SIC industries:

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

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.

The data published with NAICS code 311813 include the following SIC industry:

2053 Frozen bakery products, except bread

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.

The data published with NAICS code 311821 include the following SIC industry:

2052 Cookies and crackers (pt)

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.

The data published with NAICS code 311822 include the following SIC industries:

2045 Blended and prepared flour

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.

The data published with NAICS code 311823 include the following SIC industry:

2098 Macaroni and spaghetti

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311823 do not include dry pasta plants primarily engaged in packaging dry pasta with other ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311830 include the following SIC industry:

2099 Food preparations, n.e.c. (pt)

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.

The data published with NAICS code 311911 include the following SIC industries:

2068 Salted and roasted nuts and seeds

2099 Food preparations, n.e.c. (pt)

311919 Other Snack Food Manufacturing

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

The data published with NAICS code 311919 include the following SIC industries:

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

31192 Coffee and Tea Manufacturing

This 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.

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.

The data published with NAICS code 311920 include the following SIC industries:

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

2099 Food preparations, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311920 do not include establishments primarily engaged in the manufacture of coffee flavorings and syrups. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311930 include the following SIC industry:

2087 Flavoring extracts and syrups, n.e.c. (pt)

31194 Seasoning and Dressing Manufacturing

This 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).

The data published with NAICS code 311941 include the following SIC industries:

2035 Pickles, sauces, and salad dressings (pt)

2099 Food preparations, n.e.c.(pt)

311942 Spice and Extract Manufacturing

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

The data published with NAICS code 311942 include the following SIC industries:

2087 Flavoring extracts and syrups, n.e.c. (pt)

2095 Roasted coffee (pt)

2099 Food preparations, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311942 include establishments primarily engaged in the manufacture of coffee extracts but do not include establishments primarily engaged in the manufacture of malt extract. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 311991 include the following SIC industry:

2099 Food preparations, n.e.c. (pt)

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; bakeries and tortillas; 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.

The data published with NAICS code 311999 include the following SIC industries:

2015 Poultry slaughtering and processing (pt)

2032 Canned specialties (pt)

2087 Flavoring extracts and syrups, n.e.c. (pt)

2099 Food preparations, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311999 do not include establishments primarily engaged in the manufacture of soup mixes from purchased dehydrated ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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 NAICS industry group includes establishments classified in the following NAICS Industries: 31211, Soft Drink and Ice Manufacturing; 31212, Breweries; 31213, Wineries; and 31214, Distilleries.

31211 Soft Drink and Ice Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing soft drinks; (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.

The data published with NAICS code 312111 include the following SIC industry:

2086 Bottled and canned soft drinks (pt)

312112 Bottled Water Manufacturing

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

The data published with NAICS code 312112 include the following SIC industry:

2086 Bottled and canned soft drinks (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 312112 do not include establishments primarily engaged in the bottling of mineral or spring water. The NAICS definitions will be fully implemented with the 2002 Economic Census.

312113 Ice Manufacturing

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

The data published with NAICS code 312113 include the following SIC industry:

2097 Manufactured 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.

The data published with NAICS code 312120 include the following SIC industry:

2082 Malt beverages

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.

The data published with NAICS code 312130 include the following SIC industry:

2084 Wines, brandy, and brandy spirits

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 312130 do not include establishments primarily engaged in the manufacture of applejack. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 312140 include the following SIC industry:

2085 Distilled liquor, except brandy

3122 Tobacco Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 31221, Tobacco Stemming and Redrying; and 31222, Tobacco Product Manufacturing.

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.

The data published with NAICS code 312210 include the following SIC industry:

2141 Tobacco stemming and redrying (pt)

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.

The data published with NAICS code 312221 include the following SIC industries:

2111 Cigarettes

312229 Other Tobacco Product Manufacturing

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

The data published with NAICS code 312229 include the following SIC industries:

2121 Cigars

2131 Chewing and smoking tobacco

2141 Tobacco stemming and redrying (pt)

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 and 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 fibers.

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 includes 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; (2) manufacturing thread of any fiber; (3) texturizing, throwing, twisting, and winding purchased yarn or manmade fiber filaments; and (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.

The data published with NAICS code 313111 include the following SIC industries:

2281 Yarn spinning mills

2299 Textile goods, n.e.c. (pt)

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.

The data published with NAICS code 313112 include the following SIC industry:

2282 Yarn throwing and winding mills (pt)

3131121 Yarn Texturing, Throwing, and Twisting Mills – Manufacturer

Establishments primarily engaged in texturing, throwing, twisting, spooling, or winding purchased yarns or manmade filaments.

3131122 Yarn Texturing, Throwing, and Twisting Mills – Commission Finisher

Establishments primarily engaged in throwing, twisting, spooling, or winding yarns or manmade filaments on a commission basis.

313113 Thread Mills

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

The data published with NAICS code 313113 include the following SIC industries:

- 2284 Thread mills (pt)
- 2299 Textile goods, n.e.c. (pt)

3132 Fabric Mills

This NAICS industry group includes establishments classified in the following NAICS Industries: 31321, Broadwoven Fabric Mills; 31322, Narrow Fabric Mills and Schiffli Machine Embroidery; 31323, Nonwoven Fabric Mills; and 31324, 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.

The data published with NAICS code 313210 include the following SIC industries:

- 2211 Weaving mills, cotton
- 2221 Weaving mills, synthetics
- 2231 Weaving and finishing mills, wool (pt)
- 2299 Textile goods, n.e.c. (pt)

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; and (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

The data published with NAICS code 313221 include the following SIC industries:

- 2241 Narrow fabric mills
- 2299 Textile goods, n.e.c. (pt)

313222 Schiffli Machine Embroidery

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

The data published with NAICS code 313222 include the following SIC industry:

- 2397 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.

The data published with NAICS code 313230 include the following SIC industries:

- 2297 Nonwoven fabrics
- 2299 Textile goods, n.e.c. (pt)

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; or (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).

The data published with NAICS code 313241 include the following SIC industry:

2257 Circular knit fabric mills (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 313241 do not include establishments primarily engaged in the manufacture of articles of weft knit fabric. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3132411 Weft Knit Fabric Mills – Manufacturer

Establishments primarily engaged in knitting weft (i.e., circular) fabric; knitting and finishing weft fabric; or knitting, finishing, and further fabricating weft fabric products (except apparel).

3132412 Weft Knit Fabric Mills – Jobber

Establishments engaged as weft knit fabric jobbers, who perform entrepreneurial functions of a manufacturer, including buying raw materials, designing and preparing samples, arranging for fabric to be made from their materials, and marketing finished fabric or fabricated products (except apparel).

3132413 Weft Knit Fabric Mills – Contractor

Establishments primarily engaged in knitting or finishing weft knit fabric or further fabricating weft knit fabric into products (except apparel) on a commission basis.

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).

The data published with NAICS code 313249 include the following SIC industries:

2258 Lace and warp knit fabric mills (pt)

2259 Knitting mills, n.e.c. (pt)

3132491 Other Knit Fabric and Lace Mills – Manufacturer

Establishments primarily engaged in knitting warp (i.e., flat) fabric; knitting and finishing warp fabric; knitting, finishing, and further fabricating warp fabric products (except apparel); manufacturing lace; or manufacturing, dyeing, or finishing lace and lace goods.

3132492 Other Knit Fabric and Lace Mills – Jobber

Establishments engaged as other knit fabric and lace jobbers, who perform entrepreneurial functions of a manufacturer, including buying raw materials, designing and preparing samples, arranging for fabric to be made from their materials, and marketing finished fabric.

3132493 Other Knit Fabric and Lace Mills – Contractor

Establishments primarily engaged in knitting or finishing lace and other knit fabric or further fabricating lace and other knit fabric into products (except apparel) on a commission basis.

3133 Textile and Fabric Finishing and Fabric Coating Mills

This NAICS industry group includes establishments classified in the following NAICS Industries: 31331, Textile and Fabric Finishing Mills; and 31332, Fabric Coating Mills.

31331 Textile and Fabric Finishing Mills

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

313311 Broadwoven Fabric Finishing Mills

This U.S. industry comprises (1) establishments primarily engaged in finishing broadwoven fabrics and (2) establishments of converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale. Finishing operations include bleaching, dyeing, printing (e.g., roller, screen, flock, plisse), and other mechanical finishing, such as preshrinking, shrinking, sponging, calendaring, mercerizing and napping.

The data published with NAICS code 313311 include the following SIC industries:

- 2231 Weaving and finishing mills, wool (pt)
- 2261 Finishing plants, cotton
- 2262 Finishing plants, synthetics
- 5131 Piece goods, notions and other dry goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 313311 do not include establishments primarily engaged in the sponging of fabric for tailors and dressmakers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3133111 Broadwoven Fabric Finishing Mills – Manufacturer

Establishments primarily engaged in dyeing, bleaching, printing, and other finishing of purchased broadwoven fabrics.

3133112 Broadwoven Fabric Finishing Mills – Converter

Establishments engaged as converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale.

3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

Establishments primarily engaged in dyeing, bleaching, printing, and other finishing of broadwoven fabrics on a commission basis.

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) and (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.

The data published with NAICS code 313312 include the following SIC industries:

- 2231 Weaving and finishing mills, wool (pt)
- 2257 Circular knit fabric mills (pt)
- 2258 Lace and warp knit fabric mills (pt)

2269 Finishing plants, n.e.c.

2282 Yarn throwing and winding mills (pt)

2284 Thread mills (pt)

2299 Textile goods, n.e.c. (pt)

5131 Piece goods, notions and other dry goods (pt)

3133121 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills – Manufacturer

Establishments primarily engaged in dyeing, bleaching, printing, and other finishing of purchased textiles, apparel, and fabrics (except broadwoven).

3133122 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills – Converter

Establishments engaged as converters who buy fabrics (except broadwoven) in the grey, have them finished on contract, and sell at wholesale.

3133123 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills – Commission Finisher

Establishments primarily engaged in dyeing, bleaching, printing, and other finishing of textiles, apparel, and fabrics (except broadwoven) on a commission basis.

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.

The data published with NAICS code 313320 include the following SIC industries:

- 2295 Coated fabrics, not rubberized
- 3069 Fabricated rubber products, n.e.c. (pt)

314 Textile Product Mills

Industries in the Textile Product Mills subsector group establishments that made 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 NAICS industry group includes establishments classified in the following NAICS Industries: 31411, Carpet and Rug Mills; and 31412, Curtain and Linen Mills.

31411 Carpet and Rug Mills

This 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.

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.

The data published with NAICS code 314110 include the following SIC industry:

2273 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.

The data published with NAICS code 314121 include the following SIC industries:

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

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.

The data published with NAICS code 314129 include the following SIC industry:

2392 Housefurnishings, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 314129 do not include

establishments primarily engaged in the making of custom slip covers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 314911 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

2393 Textile bags

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.

The data published with NAICS code 314912 include the following SIC industry:

2394 Canvas and related products

31499 All Other Textile Product Mills

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

314991 Rope, Cordage, and Twine Mills

This U.S. industry comprises establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from all materials (e.g., abaca, sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass).

The data published with NAICS code 314991 include the following SIC industry:

2298 Cordage and twine

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.

The data published with NAICS code 314992 include the following SIC industry:

2296 Tire cord and fabric

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 cord and tire fabrics) from purchased materials.

The data published with NAICS code 314999 include the following SIC industries:

2299 Textile goods, n.e.c. (pt)

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 314999 include establishments primarily engaged in the manufacture of other miscellaneous textile products from SIC 3999, but do not include establishments primarily engaged in the manufacture of dust rags or textile fire hoses, or engaged in the embroidery of advertising. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 315111 include the following SIC industries:

2251 Women's hosiery, except socks

2252 Hosiery, n.e.c. (pt)

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).

The data published with NAICS code 315119 include the following SIC industry:

2252 Hosiery, n.e.c. (pt)

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.

The data published with NAICS code 315191 include the following SIC industries:

2253 Knit outerwear mills

2259 Knitting mills, n.e.c. (pt)

3151911 Outerwear Knitting Mills – Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

3151912 Outerwear Knitting Mills – Jobber

Establishments engaged as knit 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.

3151913 Outerwear Knitting Mills – Contractor

Establishments primarily engaged in manufacturing knit outerwear on materials owned by others (commission basis).

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.

The data published with NAICS code 315192 include the following SIC industries:

2254 Knit underwear mills

2259 Knitting mills, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315192 do not include knitting mills primarily engaged in the manufacture of bath and lounge robes. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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 (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.

The data published with NAICS code 315211 include the following SIC industries:

2311 Men’s and boys’ suits and coats (pt)

2321 Shirts, men’s and boys’ (pt)

2322 Men’s and boys’ underwear and nightwear (pt)

2325 Men’s and boys’ trousers and slacks (pt)

2326 Men’s and boys’ work clothing (pt)

2329 Men’s and boys’ clothing, n.e.c. (pt)

2341 Women’s and children’s underwear (pt)

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

2395 Pleating and stitching (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315211 do not include establishments primarily engaged in cut and sew contract work for men’s and boy’s neckwear, hats, shirts, other outerwear, fur goods, dress and work gloves, leather gloves and mittens, leather and sheep-lined clothing, apparel belts, or apparel and accessories, nec. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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 (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.

The data published with NAICS code 315212 include the following SIC industries:

- 2331 Women's blouses and waists (pt)
- 2335 Women's dresses (pt)
- 2337 Women's suits and coats (pt)
- 2339 Women's outerwear, n.e.c. (pt)
- 2341 Women's and children's underwear (pt)
- 2342 Brassieres and allied garments (pt)
- 2361 Girls' and children's dresses and blouses (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2384 Robes and dressing gowns (pt)
- 2385 Waterproof outer garments (pt)
- 2389 Apparel and accessories, n.e.c. (pt)
- 2395 Pleating and stitching (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315212 do not include establishments primarily engaged in cut and sew contract work for women's, girls', and infants' hats; fur goods; dress and work gloves; leather gloves and mittens; leather and sheep-lined clothing; or apparel belts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 315221 include the following SIC industries:

- 2322 Men's and boys' underwear and nightwear (pt)
- 2341 Women's and children's underwear (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2384 Robes and dressing gowns (pt)

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.

The data published with NAICS code 315222 include the following SIC industries:

- 2311 Men's and boys' suits and coats (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2385 Waterproof outer garments (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315222 do not include establishments primarily engaged in custom tailoring.

3152221 Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing – Manufacturer

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.

3152222 - Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing - Jobber

Establishments engaged as 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.

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.

The data published with NAICS code 315223 include the following SIC industries:

2321 Shirts, men's and boys' (pt)

2361 Girls' and children's dresses and blouses (pt)

3152231 Men's and Boys' Cut and Sew Shirt (Except Work Shirt) Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric.

3152232 Men's and Boys' Cut and Sew Shirt (Except Work Shirt) Manufacturing – Jobber

Establishments engaged as 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.

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.

The data published with NAICS code 315224 include the following SIC industries:

2325 Men's and boys' trousers and slacks (pt)

2369 Girls' and children's outerwear, n.e.c. (pt)

3152241 Men's and Boys' Cut and Sew Trouser, Slack, and Jean Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing men's and boys' jeans, dungarees, and other separate trousers and slacks (except work pants) from purchased fabric.

3152242 Men's and Boys' Cut and Sew Trouser, Slack, and Jean Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315225 include the following SIC industry:

2326 Men's and boys' work clothing (pt)

3152251 Men's and Boys' Cut and Sew Work Clothing Manufacturing – Manufacturer

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.

3152252 Men's and Boys' Cut and Sew Work Clothing Manufacturing – Jobbers

Establishments engaged as 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.

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 sweat-pants 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.

The data published with NAICS code 315228 include the following SIC industries:

2329 Men's and boys' clothing, n.e.c. (pt)

2369 Girls' and children's outerwear, n.e.c. (pt)

2385 Waterproof outer garments (pt)

3152281 Men's and Boys' Cut and Sew Other Outerwear Manufacturing – Manufacturer

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 working clothing).

3152282 Men's and Boys' Cut and Sew Other Outerwear Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315231 include the following SIC industries:

2341 Women's and children's underwear (pt)

2342 Brassieres and allied garments (pt)

2369 Girls' and children's outerwear, n.e.c. (pt)

2384 Robes and dressing gowns (pt)

2389 Apparel and accessories, n.e.c. (pt)

3152311 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric.

3152312 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315232 include the following SIC industries:

2331 Women's blouses and waists (pt)

2361 Girls' and children's dresses and blouses (pt)

3152321 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' blouses and shirts from purchased fabric.

3152322 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315233 include the following SIC industries:

2335 Women's dresses (pt)

2361 Girls' and children's dresses and blouses (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315233 do not include establishments primarily engaged in custom tailoring.

3152331 Women's and Girls' Cut and Sew Dress Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' dresses from purchased fabric.

3152332 Women's and Girls' Cut and Sew Dress Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315234 include the following SIC industries:

2337 Women's suits and coats (pt)

2369 Girls' and children's outerwear, n.e.c. (pt)

2385 Waterproof outer garments (pt)

3152341 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing – Manufacturer

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.

3152342 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315239 include the following SIC industries:

2339 Women's outerwear, n.e.c. (pt)

2369 Girls' and children's outerwear, n.e.c. (pt)

2385 Waterproof outer garments (pt)

3152391 Women's and Girls' Cut and Sew Other Outerwear Manufacturing – Manufacturer

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).

3152392 Women's and Girls' Cut and Sew Other Outerwear Manufacturing – Jobbers

Establishments engaged as 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.

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.

The data published with NAICS code 315291 include the following SIC industries:

- 2341 Women's and children's underwear (pt)
- 2361 Girls' and children's dresses and blouses (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2385 Waterproof outer garments (pt)

3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing infants' dresses, blouses, shirts, and all other infants' wear from purchased fabric. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

Establishments engaged as 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. 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.

The data published with NAICS code 315292 include the following SIC industries:

- 2371 Fur goods
- 2386 Leather and sheep-lined clothing

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.

The data published with NAICS code 315299 include the following SIC industries:

- 2329 Men's and boys' clothing, n.e.c. (pt)
- 2339 Women's outerwear, n.e.c. (pt)
- 2389 Apparel and accessories, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315299 do not include establishments primarily engaged in the manufacture of

waterproof rubber and plastic outerwear or rubber pants and raincoats. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

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). Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

Establishments engaged as clothing jobbers (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), 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. Examples of these products 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.

The data published with NAICS code 315991 include the following SIC industry:

2353 Hats, caps, and millinery

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.

The data published with NAICS code 315992 include the following SIC industries:

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

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.

The data published with NAICS code 315993 include the following SIC industry:

2323 Men's and boys' neckwear

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, suspenders, and waterproof outerwear.

The data published with NAICS code 315999 include the following SIC industries:

2339 Women's outerwear, n.e.c. (pt)

2385 Waterproof outer garments (pt)

2387 Apparel belts

2389 Apparel and accessories, n.e.c. (pt)

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

5699 Miscellaneous apparel and accessory stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315999 include establishments primarily engaged in custom tailoring but do not include establishments primarily engaged in the manufacture of rubber bibs, aprons, and bathing caps.

316 Leather and Allied Product Manufacturing

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

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

3161 Leather and Hide Tanning and Finishing

This NAICS industry group includes establishments classified in NAICS Industry 31611, Leather and Hide Tanning and Finishing.

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.

The data published with NAICS code 316110 include the following SIC industries:

3111 Leather tanning and finishing

3999 Manufacturing industries, n.e.c. (pt)

3162 Footwear Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31621, Footwear Manufacturing.

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.

The data published with NAICS code 316211 include the following SIC industry:

Rubber and plastics footwear

316212 House Slipper Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing house slippers and slipper socks, regardless of material.

The data published with NAICS code 316212 include the following SIC industry:

3142 House slippers

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.

The data published with NAICS code 316213 include the following SIC industry:

3143 Men's footwear, except athletic

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.

The data published with NAICS code 316214 include the following SIC industry:

3144 Women's footwear, except athletic

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)).

The data published with NAICS code 316219 include the following SIC industry:

3149 Footwear, except rubber, n.e.c.

3169 Other Leather and Allied Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31699, Other Leather and Allied Product Manufacturing.

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.

The data published with NAICS code 316991 include the following SIC industry:

3161 Luggage

316992 Women's Handbag and Purse Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's handbags and purses of any material (except precious metal).

The data published with NAICS code 316992 include the following SIC industry:

3171 Women's handbags and purses

316993 Personal Leather Goods (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).

The data published with NAICS code 316993 include the following SIC industry:

3172 Personal leather goods, n.e.c.

316999 All Other Leather Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing leather goods (except footwear, luggage, handbags, purses, and personal leather goods).

The data published with NAICS code 316999 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

321 Wood Product Manufacturing

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

The Wood Product Manufacturing subsector includes establishments that make wood products from logs and bolts that are sawed and shaped, and establishments that purchase sawed lumber and make wood products. With the exception of sawmills and wood preservation establishments, the establishments are grouped into industries mainly based on the specific products manufactured.

3211 Sawmills and Wood Preservation

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

32111 Sawmills and Wood Preservation

This industry comprises establishments primarily engaged in one or more of the following: (1) sawing dimension lumber, boards, beams, timber, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts; (2) sawing round wood poles, pilings, and posts and treating them with preservatives; and (3) treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives to prevent decay and to protect against fire and insects. Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

321113 Sawmills

This U.S. industry comprises establishments primarily engaged in sawing dimension lumber, boards, beams, timbers, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts. Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

The data published with NAICS code 321113 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2429 Special product sawmills, n.e.c. (pt)

2439 Structural wood members, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 321113 include establishments primarily engaged in the manufacture of lumber members made from logs and bolts, but do not include establishments primarily engaged in the manufacture of hardwood dimension made from logs and bolts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

321114 Wood Preservation

This U.S. industry comprises establishments primarily engaged in (1) treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives,

such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or (2) sawing round wood poles, pilings, and posts and treating them with preservatives.

The data published with NAICS code 321114 include the following SIC industry:

2491 Wood preserving

3212 Veneer, Plywood, and Engineered Wood Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32121, Veneer, Plywood, and Engineered Wood Product Manufacturing.

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.

The data published with NAICS code 321211 include the following SIC industry:

2435 Hardwood veneer and plywood

321212 Softwood Veneer and Plywood Manufacturing

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

The data published with NAICS code 321212 include the following SIC industry:

2436 Softwood veneer and 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.

The data published with NAICS code 321213 include the following SIC industry:

2439 Structural wood members, n.e.c. (pt)

321214 Truss Manufacturing

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

The data published with NAICS code 321214 include the following SIC industry:

2439 Structural wood members, n.e.c. (pt)

321219 Reconstituted Wood Product Manufacturing

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

The data published with NAICS code 321219 include the following SIC industry:

2493 Reconstituted wood products

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.

The data published with NAICS code 321911 include the following SIC industry:

2431 Millwork (pt)

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.

The data published with NAICS code 321912 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2439 Structural wood members, n.e.c. (pt)

2499 Wood products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 321912 include establishments primarily engaged in the manufacture of hardwood dimension made from logs and bolts, lumber members made from purchased lumber, and semi-machined and fully-machined softwood dimension lumber, but do not include establishments primarily engaged in the manufacture of staves from purchased lumber. The NAICS definitions will be fully implemented with the 2002 Economic Census.

321918 Other Millwork (Including Flooring)

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

The data published with NAICS code 321918 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

32192 Wood Container and Pallet Manufacturing

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

321920 Wood Container and Pallet Manufacturing

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

The data published with NAICS code 321920 include the following SIC industries:

2429 Special product sawmills, n.e.c. (pt)

2441 Nailed wood boxes & shoo

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

2499 Wood products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 321920 include establishments primarily engaged in the manufacture of cooperage headings and staves made of purchased lumber. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 321991 include the following SIC industry:

2451 Mobile homes

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.

The data published with NAICS code 321992 include the following SIC industry:

2452 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).

The data published with NAICS code 321999 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2429 Special product sawmills, n.e.c. (pt)

2499 Wood products, n.e.c. (pt)

3131 Footwear cut stock and findings (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 321999 include establishments primarily engaged in the manufacture of wood cooling towers, but do not include establishments primarily engaged in the manufacture of finished metal moldings for mirrors and pictures, semi-machined and fully-machined softwood dimension, or cooperage headings. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 322110 include the following SIC industry:

2611 Pulp mills

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.

The data published with NAICS code 322121 include the following SIC industries:

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322121 include paper mills which convert sanitary paper stock into sanitary paper products, but do not include paper mills which are primarily engaged in the manufacture of other converted paper products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221211 Paper (Except Newsprint) Mills – Integrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp in combination with pulp manufacture.

3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp not in combination with pulp manufacture.

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.

The data published with NAICS code 322122 include the following SIC industry:

2621 Paper mills (pt)

3221221 Newsprint Mills – Integrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp in combination with pulp manufacture.

3221222 Newsprint Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp not in combination with pulp manufacture.

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.

The data published with NAICS code 322130 include the following SIC industry:

2631 Paperboard mills

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322130 do not include paperboard mills primarily engaged in converting paperboard into paperboard products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221301 Paperboard Mills – Integrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp in combination with pulp manufacture.

3221302 Paperboard Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp not in combination with pulp manufacture or paperboard converting.

3222 Converted Paper Product Manufacturing

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

32221 Paperboard Container Manufacturing

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

322211 Corrugated and Solid Fiber Box Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating purchased paper or paperboard into corrugated or solid fiber boxes and related products, such as pads, partitions, pallets, and corrugated paper without manufacturing paperboard. These boxes are generally used for shipping.

The data published with NAICS code 322211 include the following SIC industry:

2653 Corrugated and solid fiber boxes

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.

The data published with NAICS code 322212 include the following SIC industry:

2657 Folding paperboard boxes

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.

The data published with NAICS code 322213 include the following SIC industry:

2652 Setup paperboard boxes

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.

The data published with NAICS code 322214 include the following SIC industry:

2655 Fiber cans, drums, and similar products

322215 Nonfolding Sanitary Food Container Manufacturing

This U.S. industry comprises establishments primarily engaged in converting sanitary foodboard into food containers (except folding).

The data published with NAICS code 322215 include the following SIC industry:

2656 Sanitary food containers

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 performing one or more of the following activities associated with the manufacturing of packaging materials: (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.

The data published with NAICS code 322221 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

322222 Coated and Laminated Paper Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with making products designed for purposes other than packaging: (1) cutting and coating paper; (2) cutting and laminating paper and other flexible materials (except plastics film to plastics film); and (3) manufacturing converted aluminum and other metal foils for non-packaging uses from purchased foils. The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

The data published with NAICS code 322222 include the following SIC industries:

2672 Paper - coated and laminated, n.e.c.

2679 Converted paper products, n.e.c. (pt)

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.

The data published with NAICS code 322223 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

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.

The data published with NAICS code 322224 include the following SIC industry:

2674 Bags - uncoated paper and multiwall

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.

The data published with NAICS code 322225 include the following SIC industry:

3497 Metal foil and leaf (pt)

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.

The data published with NAICS code 322226 include the following SIC industry:

2675 Die-cut paper and board (pt)

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.

The data published with NAICS code 322231 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

322232 Envelope Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing envelopes for mailing or stationery of any material including combinations.

The data published with NAICS code 322232 include the following SIC industry:

2677 Envelopes

322233 Stationery, Tablet, and Related Product Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper and paperboard into products used for writing and similar applications (e.g., loose-leaf fillers, notebooks, pads, stationery, tablets).

The data published with NAICS code 322233 include the following SIC industry:

2678 Stationery products

32229 Other Converted Paper Product Manufacturing

This industry comprises establishments primarily engaged in (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.

The data published with NAICS code 322291 include the following SIC industries:

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

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.

The data published with NAICS code 322299 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

323 Printing and Related Support Activities

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, periodicals, business forms, greeting cards, and other materials, and perform support activities, such as book-binding, platemaking services, and data imaging. 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, 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. 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 NAICS industry group includes establishments classified in the following NAICS Industries: 32311, Printing; and 32312, Support Activities for Printing.

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 bending, 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.

The data published with NAICS code 3231 10 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

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.

The data published with NAICS code 3231 11 include the following SIC industries:

- 2754 Commercial printing, gravure
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

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.

The data published with NAICS code 3231 12 include the following SIC industries:

- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

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.

The data published with NAICS code 3231 13 include the following SIC industries:

- 2396 Automotive and apparel trimmings (pt)
- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

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.

The data published with NAICS code 3231 14 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2759 Commercial printing, n.e.c. (pt)

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.

The data published with NAICS code 3231 15 include the following SIC industry:

- 2759 Commercial printing, n.e.c. (pt)

323116 Manifold Business Form 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.

The data published with NAICS code 3231 16 include the following SIC industries:

- 2761 Manifold business forms
- 2782 Blankbooks and looseleaf binders (pt)

323117 Book Printing

This U.S. industry comprises establishments primarily engaged in printing or printing and binding books and pamphlets without publishing.

The data published with NAICS code 3231 17 include the following SIC industry:

- 2732 Book printing

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.

The data published with NAICS code 323118 include the following SIC industry:

2782 Blankbooks and looseleaf binders (pt)

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.

The data published with NAICS code 323119 include the following SIC industries:

2759 Commercial printing, n.e.c. (pt)

2771 Greeting cards (pt)

3999 Manufacturing industries, n.e.c. (pt)

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).

The data published with NAICS code 323121 include the following SIC industry:

2789 Bookbinding and related work

323122 Prepress Services

This U.S. industry comprises (1) establishments primarily engaged in prepress services, such as imagesetting or typesetting, for printers and (2) establishments primarily engaged in preparing film or plates for printing purposes.

The data published with NAICS code 323122 include the following SIC industries:

2791 Typesetting

2796 Platemaking services

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 NAICS industry group includes establishments classified in the following NAICS Industries: 32411, Petroleum Refineries; 32412, Asphalt Paving, Roofing, and Saturated Materials Manufacturing; and 32419, 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.

The data published with NAICS code 324110 include the following SIC industry:

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (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.

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (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.

The data published with NAICS code 324121 include the following SIC industry:

2951 Asphalt paving mixtures and blocks

324122 Asphalt Shingle and Coating Materials Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and (2) manufacturing asphalt and tar and roofing cements and coatings from purchased asphaltic materials.

The data published with NAICS code 324122 include the following SIC industry:

2952 Asphalt felts and coatings

32419 Other Petroleum and Coal Products Manufacturing

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

324191 Petroleum Lubricating Oil and Grease Manufacturing

This U.S. industry comprises establishments primarily engaged in blending or compounding refined petroleum to make lubricating oils and greases and/or re-refining used petroleum lubricating oils.

The data published with NAICS code 324191 include the following SIC industry:

2992 Lubricating oils and greases

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.

The data published with NAICS code 324199 include the following SIC industries:

2999 Petroleum and coal products, n.e.c.

3312 Blast furnaces and steel mills (pt)

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 (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 (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.

The data published with NAICS code 325110 include the following SIC industries:

2865 Cyclic crudes and intermediates (pt)

2869 Industrial organic chemicals, n.e.c. (pt)

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

The data published with NAICS code 325120 include the following SIC industries:

2813 Industrial gases

2869 Industrial organic chemicals, n.e.c. (pt)

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.

The data published with NAICS code 325131 include the following SIC industries:

2816 Inorganic pigments (pt)

2819 Industrial inorganic chemicals, n.e.c. (pt)

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).

The data published with NAICS code 325132 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

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.

The data published with NAICS code 325181 include the following SIC industry:

2812 Alkalies and chlorine

325182 Carbon Black Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon black, bone black, and lamp black.

The data published with NAICS code 325182 include the following SIC industries:

2816 Inorganic pigments (pt)

2895 Carbon 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).

The data published with NAICS code 325188 include the following SIC industries:

2819 Industrial inorganic chemicals, n.e.c. (pt)

2869 Industrial organic chemicals, n.e.c. (pt)

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).

The data published with NAICS code 325191 include the following SIC industry:

2861 Gum and wood chemicals

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.

The data published with NAICS code 325192 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

325193 Ethyl Alcohol Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpotable ethyl alcohol.

The data published with NAICS code 325193 include the following SIC industry:

2869 Industrial organic chemicals, n.e.c. (pt)

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).

The data published with NAICS code 325199 include the following SIC industries:

2869 Industrial organic chemicals, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

3252 Resin, Synthetic Rubber, and 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.

The data published with NAICS code 325211 include the following SIC industry:

2821 Plastics materials and resins

325212 Synthetic Rubber Manufacturing

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

The data published with NAICS code 325212 include the following SIC industry:

2822 Synthetic rubber

32522 Artificial and Synthetic Fibers and Filaments Manufacturing

This industry comprises establishments primarily engaged in (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 (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 texturing cellulosic fibers and filaments.

The data published with NAICS code 325221 include the following SIC industry:

2823 Cellulosic manmade fibers

325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry consists of establishments primarily engaged in (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 texturing noncellulosic fibers and filaments.

The data published with NAICS code 325222 include the following SIC industry:

2824 Organic fibers, noncellulosic

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32531, Fertilizer Manufacturing; and 32532, 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.

The data published with NAICS code 325311 include the following SIC industry:

2873 Nitrogenous 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.

The data published with NAICS code 325312 include the following SIC industry:

2874 Phosphatic fertilizers

325314 Fertilizer (Mixing Only) Manufacturing

This U.S. industry comprises establishments primarily engaged in mixing ingredients made elsewhere into fertilizers.

The data published with NAICS code 325314 include the following SIC industry:

2875 Fertilizers, mixing only

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).

The data published with NAICS code 325320 include the following SIC industry:

2879 Agricultural chemicals, n.e.c.

3254 Pharmaceutical and Medicine Manufacturing

This NAICS industry group includes establishments classified in Industry 32541, Pharmaceutical and Medicine Manufacturing.

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 (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.

The data published with NAICS code 325411 include the following SIC industry:

2833 Medicinals and 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.

The data published with NAICS code 325412 include the following SIC industries:

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

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.

The data published with NAICS code 325413 include the following SIC industry:

2835 Diagnostic substances (pt)

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).

The data published with NAICS code 325414 include the following SIC industry:

2836 Biological products, except diagnostic

3255 Paint, Coating, and Adhesive Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32551, Paint and Coating Manufacturing; and 32552, Adhesive Manufacturing.

32551 Paint and Coating Manufacturing

This industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

325510 Paint and Coating Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

The data published with NAICS code 325510 include the following SIC industries:

2851 Paints and allied products

2899 Chemical preparations, n.e.c. (pt)

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.

The data published with NAICS code 325520 include the following SIC industry:

2891 Adhesives and sealants

3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32561, Soap and Cleaning Compound Manufacturing; and 32562, 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.

The data published with NAICS code 325611 include the following SIC industries:

2841 Soap and other detergents

2844 Toilet preparations (pt)

325612 Polish and Other Sanitation Good Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging polishes and specialty cleaning preparations.

The data published with NAICS code 325612 include the following SIC industry:

2842 Polishes and sanitation goods

325613 Surface Active Agent Manufacturing

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

The data published with NAICS code 325613 include the following SIC industry:

2843 Surface active agents

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.

The data published with NAICS code 325620 include the following SIC industry:

2844 Toilet preparations (pt)

3259 Other Chemical Product 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 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.

The data published with NAICS code 325910 include the following SIC industry:

2893 Printing ink

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.

The data published with NAICS code 325920 include the following SIC industry:

2892 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 comprises establishments primarily engaged in (1) custom mixing and blending plastics resins made elsewhere or (2) reformulating plastics resins from recycled plastics products.

The data published with NAICS code 325991 include the following SIC industries:

3087 Custom compound purchased resins

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.

The data published with NAICS code 325992 include the following SIC industry:

3861 Photographic equipment and supplies (pt)

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).

The data published with NAICS code 325998 include the following SIC industries:

2819 Industrial inorganic chemicals, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 325998 do not include establishments primarily engaged in aerosol packaging. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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 Hose 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 Unsupported Plastics Film, Sheet, and Bag Manufacturing

This industry comprises establishments primarily engaged in (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 Unsupported Plastics Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) converting plastics resins into plastics bags or (2) forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags. Establishments in this industry may print on the bags they manufacture.

The data published with NAICS code 326111 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet.

The data published with NAICS code 326112 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

326113 Unsupported 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).

The data published with NAICS code 326113 include the following SIC industry:

3081 Unsupported plastics film and sheet

32612 Plastics Pipe, Pipe Fitting, and Unsupported 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 Unsupported Plastics Profile Shapes 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.

The data published with NAICS code 326121 include the following SIC industry:

3082 Unsupported plastics profile shapes

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.

The data published with NAICS code 326122 include the following SIC industries:

3084 Plastics pipe

3089 Plastics products, n.e.c. (pt)

32613 Laminated Plastics Plate, Sheet, 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, 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.

The data published with NAICS code 326130 include the following SIC industry:

3083 Laminated plastics plate and sheet

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.

The data published with NAICS code 326140 include the following SIC industry:

3086 Plastics foam products (pt)

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).

The data published with NAICS code 326150 include the following SIC industry:

3086 Plastics foam products (pt)

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.

The data published with NAICS code 326160 include the following SIC industry:

3085 Plastics bottles

32619 Other Plastics Product Manufacturing

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

326191 Plastics Plumbing Fixture Manufacturing

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

The data published with NAICS code 326191 include the following SIC industry:

3088 Plastics plumbing fixtures

326192 Resilient Floor Covering Manufacturing

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

The data published with NAICS code 326192 include the following SIC industries:

3069 Fabricated rubber products, n.e.c. (pt)

3996 Hard surface floor coverings

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).

The data published with NAICS code 326199 include the following SIC industries:

3089 Plastics products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326199 include establishments primarily engaged in the manufacture of plastic furniture parts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 326211 include the following SIC industry:

3011 Tires and inner tubes

326212 Tire Retreading

This U.S. industry comprises establishments primarily engaged in retreading, or rebuilding tires.

The data published with NAICS code 326212 include the following SIC industry:

7534 Tire retreading and repair shops (pt)

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.

The data published with NAICS code 326220 include the following SIC industry:

3052 Rubber and plastics hose and belting

32629 Other Rubber Product Manufacturing

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

326291 Rubber Product Manufacturing for Mechanical Use

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

The data published with NAICS code 326291 include the following SIC industry:

3061 Mechanical rubber goods

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.

The data published with NAICS code 326299 include the following SIC industry:

3069 Fabricated rubber products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326299 include establishments primarily engaged in the manufacture of rubber products including gloves, toys, pants, raincoats, bibs, aprons, bathing caps, life jackets, and wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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 benefit 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 NAICS industry group includes establishments classified in the following NAICS Industries: 32711, Pottery, Ceramics, and Plumbing Fixture Manufacturing; and 32712, Clay Building Material and Refractories Manufacturing.

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.

The data published with NAICS code 327111 include the following SIC industry:

3261 Vitreous plumbing fixtures

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.

The data published with NAICS code 327112 include the following SIC industries:

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

3299 Nonmetallic mineral products, n.e.c. (pt)

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.

The data published with NAICS code 327113 include the following SIC industry:

3264 Porcelain electrical supplies

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.

The data published with NAICS code 327121 include the following SIC industry:

3251 Brick and structural clay tile

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327121 include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327122 Ceramic Wall and Floor Tile Manufacturing

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

The data published with NAICS code 327122 include the following SIC industry:

3253 Ceramic wall and floor tile

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.

The data published with NAICS code 327123 include the following SIC industry:

3259 Structural clay products, n.e.c.

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.

The data published with NAICS code 327124 include the following SIC industry:

3255 Clay refractories

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.

The data published with NAICS code 327125 include the following SIC industry:

3297 Nonclay refractories

3272 Glass and Glass Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32721, Glass and Glass Product Manufacturing.

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.

The data published with NAICS code 327211 include the following SIC industry:

3211 Flat glass

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).

The data published with NAICS code 327212 include the following SIC industry:

3229 Pressed and blown glass, n.e.c.

327213 Glass Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass packaging containers.

The data published with NAICS code 327213 include the following SIC industry:

3221 Glass containers

327215 Glass Product Manufacturing Made of Purchased Glass

This U.S. industry comprises establishments primarily engaged in remelting, pressing, blowing, or shaping purchased glass.

The data published with NAICS code 327215 include the following SIC industry:

3231 Products of purchased glass

3273 Cement and Concrete Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32731, Cement Manufacturing; 32732, Ready-Mix Concrete Manufacturing; 32733, Concrete Pipe, Brick, and Block Manufacturing; and 32739, 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.

The data published with NAICS code 327310 include the following SIC industry:

3241 Cement, hydraulic

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, 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.

The data published with NAICS code 327320 include the following SIC industry:

3273 Ready-mixed concrete

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.

The data published with NAICS code 327331 include the following SIC industry:

3271 Concrete brick and block

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327331 do not include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327332 Concrete Pipe Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

The data published with NAICS code 327332 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

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).

The data published with NAICS code 327390 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

3274 Lime and Gypsum Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32741, Lime Manufacturing; and 32742, Gypsum Product Manufacturing.

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.

The data published with NAICS code 327410 include the following SIC industry:

3274 Lime

32742 Gypsum Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wall-board, 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 wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

The data published with NAICS code 327420 include the following SIC industries:

3275 Gypsum products

3299 Nonmetallic mineral products, n.e.c. (pt)

3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments 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.

The data published with NAICS code 327910 include the following SIC industry:

3291 Abrasive products (pt)

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.

The data published with NAICS code 327991 include the following SIC industry:

3281 Cut stone and stone products

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.

The data published with NAICS code 327992 include the following SIC industry:

3295 Minerals, ground or treated

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.

The data published with NAICS code 327993 include the following SIC industry:

3296 Mineral wool

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).

The data published with NAICS code 327999 include the following SIC industries:

3272 Concrete products, n.e.c. (pt)

3292 Asbestos products (pt)

3299 Nonmetallic mineral products, n.e.c. (pt)

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 NAICS industry group includes establishments classified in NAICS Industry 33111, Iron and Steel Mills and Ferroalloy Manufacturing.

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, 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; (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.

The data published with NAICS code 331111 include the following SIC industries:

3312 Blast furnaces and steel mills (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331111 include establishments primarily engaged in the manufacture of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3311111 Iron and Steel Mills – Fully Integrated

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311112 Iron and Steel Mills – Partially Integrated With a Blast Furnace

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing ingots and/or semfinished shapes, such as blooms, billets, and rods.

3311113 Iron and Steel Mills – Partially Integrated Without a Blast Furnace

Establishments primarily engaged in converting pig iron, direct reduced iron, and/or scrap into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311114 Iron and Steel Mills – Nonintegrated

Establishments primarily engaged in producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire from purchased ingots and/or semfinished shapes, such as blooms, billets, and rods.

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.

The data published with NAICS code 331112 include the following SIC industry:

3313 Electrometallurgical products (pt)

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 Pipes and Tubes 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 Pipes and Tubes 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.

The data published with NAICS code 331210 include the following SIC industry:

3317 Steel pipe and tubes

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.

The data published with NAICS code 331221 include the following SIC industry:

3316 Cold finishing of steel shapes

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331221 do not include establishments primarily engaged in making coke oven and blast furnace products; in making steel and rolling or drawing steel shapes; or in the making of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

331222 Steel Wire Drawing

This U.S. industry comprises establishments primarily engaged in drawing wire from purchased steel.

The data published with NAICS code 331222 include the following SIC industry:

3315 Steel wire and related products (pt)

3313 Alumina and Aluminum Production and Processing

This NAICS industry group includes establishments classified in NAICS Industry 33131, Alumina and Aluminum Production and Processing.

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, wire).

331311 Alumina Refining

This U.S. industry comprises establishments primarily engaged in refining alumina (i.e., aluminum oxide) generally from bauxite.

The data published with NAICS code 331311 include the following SIC industry:

2819 Industrial inorganic chemicals, n.e.c. (pt)

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, strip). Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

The data published with NAICS code 331312 include the following SIC industry:

3334 Primary aluminum

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.

The data published with NAICS code 331314 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

331315 Aluminum Sheet, Plate, and Foil Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or (2) recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

The data published with NAICS code 331315 include the following SIC industry:

3353 Aluminum sheet, plate, and foil (pt)

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.

The data published with NAICS code 331316 include the following SIC industry:

3354 Aluminum extruded products

331319 Other Aluminum Rolling and Drawing

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) from purchased aluminum and/or (2) recovering aluminum from scrap and rolling, drawing or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) in integrated mills.

The data published with NAICS code 331319 include the following SIC industries:

3355 Aluminum rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

3314 Nonferrous Metal (Except Aluminum) Production and Processing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33141, Nonferrous Metal (Except Aluminum) Smelting and Refining; 33142, Copper Rolling, Drawing, Extruding, and Alloying; and 33149, Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying.

33141 Nonferrous Metal (Except Aluminum) Smelting and Refining

This industry comprises establishments primarily engaged in (1) smelting ores into nonferrous metals and/or (2) the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

331411 Primary Smelting and Refining of Copper

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

The data published with NAICS code 331411 include the following SIC industry:

3331 Primary copper

331419 Primary Smelting and Refining of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) making (i.e., the primary production) nonferrous metals by smelting ore and/or (2) the primary refining of nonferrous metals by electrolytic methods or other processes.

The data published with NAICS code 331419 include the following SIC industry:

3339 Primary nonferrous metals, n.e.c.

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, and 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, and 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, tube (except bare or insulated copper communication or energy wire)) from purchased copper; and/or (2) recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire in integrated mills)).

The data published with NAICS code 331421 include the following SIC industry:

3351 Copper rolling and drawing

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.

The data published with NAICS code 331422 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

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.

The data published with NAICS code 331423 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

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, or extruding shapes (e.g., bar, plate, sheet, strip, 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, tube) in integrated mills.

The data published with NAICS code 331491 include the following SIC industries:

3356 Nonferrous rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

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, wire) using smelting or refining processes.

The data published with NAICS code 331492 include the following SIC industries:

3313 Electrometallurgical products (pt)

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331492 include establishments primarily engaged in the manufacture of other nonferrous additive alloys. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3315 Foundries

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping,

threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

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

33151 Ferrous Metal Foundries

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

331511 Iron Foundries

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

The data published with NAICS code 331511 include the following SIC industries:

3321 Gray iron foundries

3322 Malleable iron foundries

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.

The data published with NAICS code 331512 include the following SIC industry:

3324 Steel investment foundries

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.

The data published with NAICS code 331513 include the following SIC industry:

3325 Steel foundries, n.e.c.

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.

The data published with NAICS code 331521 include the following SIC industry:

3363 Aluminum die-castings

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.

The data published with NAICS code 331522 include the following SIC industry:

3364 Nonferrous die-casting, except aluminum

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.

The data published with NAICS code 331524 include the following SIC industry:

3365 Aluminum foundries

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.

The data published with NAICS code 331525 include the following SIC industry:

3366 Copper foundries

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.

The data published with NAICS code 331528 include the following SIC industry:

3369 Nonferrous foundries, n.e.c.

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 NAICS industry group includes establishments classified in NAICS Industry 33211, Forging and Stamping.

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, coins); and (4) manufacturing powder metallurgy products. Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining, 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.

The data published with NAICS code 332111 include the following SIC industry:

3462 Iron and steel forgings

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.

The data published with NAICS code 332112 include the following SIC industry:

3463 Nonferrous forgings

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.

The data published with NAICS code 332114 include the following SIC industry:

3449 Miscellaneous metal work (pt)

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.

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

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.

The data published with NAICS code 332116 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

332117 Powder Metallurgy Parts 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.

The data published with NAICS code 332117 include the following SIC industry:

3499 Fabricated metal products, n.e.c. (pt)

3322 Cutlery and Handtool Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

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 skillet) 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.

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarily engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

The data published with NAICS code 332212 include the following SIC industries:

- 3423 Hand and edge tools, n.e.c.
- 3523 Farm machinery and equipment (pt)
- 3524 Lawn and garden equipment (pt)
- 3545 Machine tool accessories (pt)
- 3699 Electrical equipment and supplies, n.e.c. (pt)
- 3799 Transportation equipment, n.e.c. (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 332213 include the following SIC industry:

- 3425 Saw blades and handsaws

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).

The data published with NAICS code 332214 include the following SIC industry:

- 3469 Metal stampings, n.e.c. (pt)

3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, 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.

The data published with NAICS code 332311 include the following SIC industry:

- 3448 Prefabricated metal buildings

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.

The data published with NAICS code 332312 include the following SIC industries:

- 3441 Fabricated structural metal
- 3449 Miscellaneous metal work (pt)

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.

The data published with NAICS code 332313 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

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 (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

- 2499 Wood products, n.e.c. (pt)
- 3442 Metal doors, sash, and trim
- 3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

The data published with NAICS code 332322 include the following SIC industry:

- 3444 Sheet metal work (pt)

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.

The data published with NAICS code 332323 include the following SIC industries:

- 3446 Architectural metal work
- 3449 Miscellaneous metal work (pt)
- 3523 Farm machinery and equipment (pt)

3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, 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.

The data published with NAICS code 332410 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 332420 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

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.

The data published with NAICS code 332431 include the following SIC industry:

- 3411 Metal cans

332439 Other Metal Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

The data published with NAICS code 332439 include the following SIC industries:

- 3412 Metal barrels, drums, and pails
- 3429 Hardware, n.e.c. (pt)
- 3444 Sheet metal work (pt)
- 3499 Fabricated metal products, n.e.c. (pt)
- 3537 Industrial trucks and tractors (pt)

3325 Hardware Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

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, 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, time locks).

The data published with NAICS code 332510 include the following SIC industries:

- 3429 Hardware, n.e.c. (pt)
- 3499 Fabricated metal products, n.e.c. (pt)

3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

33261 Spring and Wire Product Manufacturing

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

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock.

The data published with NAICS code 332611 include the following SIC industry:

- 3493 Steel springs, except wire

332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

The data published with NAICS code 332612 include the following SIC industry:

- 3495 Wire springs (pt)

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.

The data published with NAICS code 332618 include the following SIC industries:

- 3315 Steel wire and related products (pt)
- 3399 Primary metal products, n.e.c. (pt)
- 3496 Miscellaneous fabricated wire products

3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. 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 known as machine shops primarily engaged in machining metal parts on a job or order basis. 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.

The data published with NAICS code 332710 include the following SIC industry:

- 3599 Industrial machinery, n.e.c. (pt)

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 manufacturing parts for machinery and equipment on a customized basis.

332721 Precision Turned Product Manufacturing

This U.S. industry comprises establishments known as precision turned manufacturers primarily engaged in machining precision products of all materials on a job or order basis. 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.

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, and washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

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, 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. Establishments in this industry 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.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

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.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

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.

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

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.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 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.

The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

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.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 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.

The data published with NAICS code 332998 include the following SIC industry:

3431 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).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fire-place fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333 Machinery Manufacturing

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

typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special-purpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, 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).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

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.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

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, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

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.

The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

3332 Industrial Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, 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.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking 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.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

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.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

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, type-setting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

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.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

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).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

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 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.

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.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

333313 Office Machinery Manufacturing

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

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

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, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

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, digital projectors, film developing equipment, photocopying equipment, and microfilm equipment).

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

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).

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing ventilating, 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.

The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

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.

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

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.

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

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.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

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.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

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.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

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.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

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.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

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).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

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.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

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).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

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, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, 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.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

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.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

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.

The data published with NAICS code 333913 include the following SIC industry:

3586 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.

The data published with NAICS code 333912 include the following SIC industry:

3534 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.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

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.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

333924 Industrial Truck, Tractor, Trailer, and Stackers 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.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

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).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging 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, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

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.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333996 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 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).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

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 NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

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.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

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.

The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

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.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

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).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

3342 Communications Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, 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 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.

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.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

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.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

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).

The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

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.

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

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.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron 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.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

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.

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

334414 Electronic Capacitor Manufacturing

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

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

334415 Electronic Resistor Manufacturing

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

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

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.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

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.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

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

334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electro-medical laser products.

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.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

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.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

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 (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

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.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

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.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

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, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

334518 Watch, Clock, and Parts 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.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical 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.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

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.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

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.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

33511 Electric Lamp Bulb and Parts 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).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

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.

The data published with NAICS code 335121 include the following SIC industries:

- 3089 Plastics products, n.e.c. (pt)
- 3645 Residential lighting fixtures
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 335122 include the following SIC industry:

- 3646 Commercial lighting fixtures

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

- 3648 Lighting equipment, n.e.c.
- 3699 Electrical equipment and supplies, n.e.c. (pt)

3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, 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).

The data published with NAICS code 335211 include the following SIC industry:

- 3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 335212 include the following SIC industries:

- 3635 Household vacuum cleaners
- 3639 Household appliances, n.e.c. (pt)

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).

The data published with NAICS code 335221 include the following SIC industry:

- 3631 Household cooking equipment

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.

The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

3353 Electrical Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

33531 Electrical Equipment Manufacturing

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

335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

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.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 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.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments 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.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

33592 Communication and Energy Wire and Cable Manufacturing

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

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

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.

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

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.

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

335932 Noncurrent-Carrying Wiring Device Manufacturing

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

The data published with NAICS code 335932 include the following SIC industry:

3644 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.

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and 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.

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

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 NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (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.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

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.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

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.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

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.

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

336213 Motor Home Manufacturing

This U.S. industry 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.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

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.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

3363 Motor Vehicle Parts Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

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

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and 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.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

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, ships).

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

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.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33633 Motor Vehicle Steering and Suspension Component (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 Component (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).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

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.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

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.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

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.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

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.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

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).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3364 Aerospace Product and Parts Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

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).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

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.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

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.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and 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.

The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and 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.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

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.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

33661 Ship and Boat Building

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

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.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

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.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

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.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

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, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

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., knock-down). 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.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood countertops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

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).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

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).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

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.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

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).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

2542 Partitions and fixtures, except wood

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or non-wood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

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: 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.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

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 NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

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.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

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).

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

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, and reading glasses made to standard powers.

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

339116 Dental Laboratories

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

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

3399 Other Miscellaneous Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more 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.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

339912 Silverware and Holloware 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 plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more 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.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

339914 Costume Jewelry and Novelty Manufacturing

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

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

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).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

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).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include

establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

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.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

339942 Lead Pencil and Art Goods 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.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

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.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 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, 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, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

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.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

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).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

3991 Brooms and brushes

339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

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).

The data published with NAICS code 339999 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C.

Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were 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). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. 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 our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) 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 which 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” (nsc) 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 four-digit SIC industry and then erroneously re-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 SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

- 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-1000) 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 480 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 many 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 identified on the form.

A wide variety of special inquiries was 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 or 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 *nsk* categories.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G 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 1997, 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). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 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 1997, 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 which 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 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 1997, 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 1997 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 annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 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 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures 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 1994-98 sample, there are approximately 650 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. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three 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 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), 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 our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. 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.

DESCRIPTION OF THE 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 1992 (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 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 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 contains approximately 170,000 individual establishments in 1994, 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.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

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 1997 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.

Appendix D.

Geographic Notes

WISCONSIN

Appleton is in Calumet, Outagamie, and Winnebago Counties.

Bayside is in Milwaukee and Ozaukee Counties.

Berlin is in Green Lake and Waushara Counties.

Burlington is in Racine and Walworth Counties.

Columbus is in Columbia and Dodge Counties.

Eau Claire is in Chippewa and Eau Claire Counties.

Hartford is in Dodge and Washington Counties.

Kewaskum is in Fond du Lac and Washington Counties.

Kiel is in Calumet and Manitowoc Counties.

Marshfield is in Marathon and Wood Counties.

Menasha is in Calumet and Winnebago Counties.

Milwaukee is in Milwaukee, Washington, and Waukesha Counties.

Mukwonago is in Walworth and Waukesha Counties.

New London is in Outagamie and Waupaca Counties.

River Falls is in Pierce and St. Croix Counties.

Watertown is in Dodge and Jefferson Counties.

Waupun is in Dodge and Fond du Lac Counties.

Whitewater is in Jefferson and Walworth Counties.

Appendix E. Metropolitan Areas

WISCONSIN

Appleton—Oshkosh—Neenah, WI MSA

Calumet County, WI
Outagamie County, WI
Winnebago County, WI

Chicago—Gary—Kenosha, IL—IN—WI CMSA

Chicago, IL PMSA
Cook County, IL
DeKalb County, IL
DuPage County, IL
Grundy County, IL
Kane County, IL
Kendall County, IL
Lake County, IL
McHenry County, IL
Will County, IL

Gary, IN PMSA
Lake County, IN
Porter County, IN

Kankakee, IL PMSA
Kankakee County, IL

Kenosha, WI PMSA
Kenosha County, WI

Duluth—Superior, MN—WI MSA

St. Louis County, MN
Douglas County, WI

Eau Claire, WI MSA

Chippewa County, WI
Eau Claire County, WI

Green Bay, WI MSA

Brown County, WI

Janesville—Beloit, WI MSA

Rock County, WI

Kenosha, WI PMSA

Kenosha County, WI

La Crosse, WI—MN MSA

Houston County, MN
La Crosse County, WI

Madison, WI MSA

Dane County, WI

Milwaukee—Waukesha, WI PMSA

Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI

Milwaukee—Racine, WI CMSA

Milwaukee—Waukesha, WI PMSA
Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI

Racine, WI PMSA

Racine County, WI

Minneapolis—St. Paul, MN—WI MSA

Anoka County, MN
Carver County, MN
Chisago County, MN
Dakota County, MN
Hennepin County, MN
Isanti County, MN
Ramsey County, MN
Scott County, MN
Sherburne County, MN

Minneapolis—St. Paul, MN—WI MSA—Con.

Washington County, MN

Wright County, MN

Pierce County, WI

St. Croix County, WI

Racine, WI PMSA

Racine County, WI

Sheboygan, WI MSA

Sheboygan County, WI

Wausau, WI MSA

Marathon County, WI

