

Minnesota

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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

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

William M. Daley,

Secretary

Robert L. Mallett,

Deputy Secretary

Economics

and Statistics

Administration

Robert J. Shapiro,

Under Secretary for

Economic Affairs

U.S. CENSUS BUREAU

Kenneth Prewitt,

Director



**Economics
and Statistics
Administration**

Robert J. Shapiro,
Under Secretary
for Economic Affairs



U.S. CENSUS BUREAU

Kenneth Prewitt,
Director

William G. Barron,
Deputy Director

Paula J. Schneider,
Principal Associate Director
for Programs

Frederick T. Knickerbocker,
Associate Director
for Economic Programs

Thomas L. Mesenbourg,
Assistant Director
for Economic Programs

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

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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

- Policymaking agencies of the Federal Government use the data to monitor economic activity and 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)				
MINNESOTA													
31-33	Manufacturing	-	8 091	2 728	382 530	13 126 112	260 158	519 172	7 250 068	36 629 931	39 696 664	76 244 894	3 171 968
311	Food mfg	-	657	263	44 042	1 218 753	32 896	66 938	787 358	4 781 890	10 005 764	14 806 612	360 109
3111	Animal food mfg	1	72	22	1 274	45 754	830	1 740	24 595	174 602	422 302	598 482	12 336
31111	Animal food mfg	1	72	22	1 274	45 754	830	1 740	24 595	174 602	422 302	598 482	12 336
311111	Dog & cat food mfg	1	7	2	213	7 470	191	418	5 990	40 592	26 962	67 377	1 041
311119	Other animal food mfg	1	65	20	1 061	38 284	639	1 322	18 605	134 010	395 340	531 105	11 295
3112	Grain & oilseed milling	-	45	26	2 880	112 702	2 187	5 020	84 827	633 388	1 983 085	2 642 633	57 548
31121	Flour milling & malt mfg	1	30	16	935	36 045	718	1 597	26 301	153 646	578 971	740 706	16 221
311211	Flour milling	1	18	12	643	24 107	495	1 174	18 380	95 997	435 463	532 316	9 203
311213	Malt mfg	-	8	4	265	10 967	209	389	7 452	49 171	138 724	195 489	6 887
31122	Starch & vegetable fats & oils mfg	-	9	7	919	31 056	719	1 652	22 193	168 111	1 231 343	1 402 708	27 167
311221	Wet corn milling	-	3	1	e	D	D	D	D	D	D	D	D
311222	Soybean processing	-	3	3	346	12 283	236	489	7 433	107 120	907 268	1 015 853	15 267
311225	Fats & oils refining & blending	-	2	2	c	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	6	3	1 026	45 601	750	1 771	36 333	311 631	172 771	499 219	14 160
311230	Breakfast cereal mfg	-	6	3	1 026	45 601	750	1 771	36 333	311 631	172 771	499 219	14 160
3113	Sugar & confectionery product mfg	-	28	12	2 740	87 387	2 208	4 702	64 044	292 423	557 118	826 931	59 412
31131	Sugar mfg	-	4	4	g	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	-	4	4	g	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate	-	12	3	e	D	D	D	D	D	D	D	521
311330	Confectionery mfg from purchased chocolate	-	12	3	e	D	D	D	D	D	D	D	521
31134	Nonchocolate confectionery mfg	1	11	5	1 116	30 728	795	1 641	17 987	65 709	139 304	206 749	D
311340	Nonchocolate confectionery mfg	1	11	5	1 116	30 728	795	1 641	17 987	65 709	139 304	206 749	D
3114	Fruit & vegetable preserving & specialty food mfg	1	47	31	5 124	121 060	3 965	8 073	77 052	353 692	443 101	793 722	30 075
31141	Frozen food mfg	2	19	14	2 527	61 706	1 676	3 135	31 015	184 377	180 889	362 954	20 244
311411	Frozen fruit, juice, & vegetable mfg	-	5	4	533	11 564	471	903	9 318	61 257	63 288	124 818	7 004
311412	Frozen specialty food mfg	3	14	10	1 994	50 142	1 205	2 232	21 697	123 120	117 601	238 136	13 240
31142	Fruit & vegetable canning, pickling, & drying	1	28	17	2 597	59 354	2 289	4 938	46 037	169 315	262 212	430 768	9 831
311421	Fruit & vegetable canning	1	19	12	2 139	46 922	1 985	4 290	40 207	140 112	217 130	356 440	8 090
311422	Specialty canning	-	5	4	391	10 291	251	525	4 471	20 610	35 622	56 225	D
3115	Dairy product mfg	-	80	49	i	D	D	D	D	D	D	D	75 202
31151	Dairy product (except frozen) mfg	-	77	48	i	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	1	32	13	1 260	44 263	635	1 303	22 075	110 164	367 851	477 762	7 354
311512	Creamery butter mfg	-	3	3	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	22	19	3 327	92 260	2 702	5 420	71 663	662 597	1 756 274	2 411 710	41 726
311514	Dry, condensed, & evaporated dairy product mfg	-	20	13	1 857	69 209	1 111	2 275	29 956	238 842	382 767	627 044	23 328
31152	Ice cream & frozen dessert mfg	-	3	1	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	-	3	1	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	84	43	14 129	358 629	11 596	23 912	242 943	1 302 967	2 922 529	4 233 772	70 964
31161	Animal slaughtering & processing	-	84	43	14 129	358 629	11 596	23 912	242 943	1 302 967	2 922 529	4 233 772	70 964
311611	Animal (except poultry) slaughtering	-	32	12	5 462	165 269	4 056	8 282	96 800	782 937	1 935 932	2 719 531	34 677
311612	Meat processed from carcasses	3	21	11	2 004	49 999	1 529	3 046	28 309	120 816	329 405	448 403	6 385
311613	Rendering & meat byproduct processing	-	12	5	358	11 846	219	511	6 595	44 521	56 774	101 073	8 688
311615	Poultry processing	-	19	15	6 305	131 515	5 792	12 073	111 239	354 693	600 418	964 765	21 214
3117	Seafood product preparation & packaging	-	5	3	f	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging	-	5	3	f	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing	-	5	3	f	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)				
	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	1	221	43	5 818	132 008	3 471	6 550	75 540	381 571	336 488	725 683	D
31181	Bread & bakery product mfg	1	199	32	4 187	82 580	2 216	3 926	45 093	227 317	168 534	399 980	12 549
311811	Retail bakeries	2	150	10	1 099	13 673	546	705	6 708	31 734	18 447	50 522	1 083
311812	Commercial bakeries	1	42	18	2 586	57 798	1 243	2 390	29 787	163 644	106 627	270 199	8 913
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	2	19	9	g	D	D	D	D	D	D	D	4 647
311822	Flour mixes & dough mfg from purchased flour	2	13	6	g	D	D	D	D	D	D	D	4 446
311823	Dry pasta mfg	—	4	1	e	D	D	D	D	D	D	D	201
31183	Tortilla mfg	—	3	2	c	D	D	D	D	D	D	D	D
311830	Tortilla mfg	—	3	2	c	D	D	D	D	D	D	D	D
3119	Other food mfg	1	75	34	4 576	127 959	3 305	6 061	71 359	512 491	527 872	1 047 310	31 590
31191	Snack food mfg	—	15	8	1 278	32 318	790	1 480	15 725	77 791	132 121	209 997	4 832
311911	Roasted nuts & peanut butter mfg	—	7	4	e	D	D	D	D	D	D	D	2 101
311919	Other snack food mfg	—	8	4	f	D	D	D	D	D	D	D	2 731
31192	Coffee & tea mfg	3	8	2	c	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	3	8	2	c	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	1	10	2	e	D	D	D	D	D	D	D	2 671
311942	Spice & extract mfg	—	7	1	417	9 685	205	337	3 280	29 803	26 548	57 090	D
31199	All other food mfg	1	41	21	2 674	78 131	2 159	3 959	46 428	237 306	321 122	564 744	22 463
311991	Perishable prepared food mfg	—	12	9	825	20 220	737	1 282	15 074	49 301	46 927	101 282	12 590
311999	All other miscellaneous food mfg	1	29	12	1 849	57 911	1 422	2 677	31 354	188 005	274 195	463 462	9 873
312	Beverage & tobacco product mfg	1	39	14	2 137	73 071	1 344	2 374	36 470	303 927	590 377	898 202	14 470
3121	Beverage mfg	1	39	14	2 137	73 071	1 344	2 374	36 470	303 927	590 377	898 202	14 470
31211	Soft drink & ice mfg	—	23	8	1 263	47 128	695	1 518	19 798	186 979	465 546	651 347	10 612
312111	Soft drink mfg	—	11	7	1 183	44 962	662	1 452	19 233	179 607	463 546	641 951	9 870
31212	Breweries	3	10	4	f	D	D	D	D	D	D	D	D
312120	Breweries	3	10	4	f	D	D	D	D	D	D	D	D
31213	Wineries	9	5	1	c	D	D	D	D	D	D	D	D
312130	Wineries	9	5	1	c	D	D	D	D	D	D	D	D
31214	Distilleries	—	1	1	c	D	D	D	D	D	D	D	D
312140	Distilleries	—	1	1	c	D	D	D	D	D	D	D	D
313	Textile mills	2	39	8	712	23 600	494	997	11 750	45 636	63 027	107 113	3 320
3132	Fabric mills	1	18	6	537	17 850	397	818	9 191	33 688	49 930	83 972	1 962
31321	Broadwoven fabric mills	3	8	3	303	8 849	251	543	5 830	19 702	27 902	47 764	1 071
313210	Broadwoven fabric mills	3	8	3	303	8 849	251	543	5 830	19 702	27 902	47 764	1 071
31323	Nonwoven fabric mills	—	4	1	c	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	—	4	1	c	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	6	21	2	175	5 750	97	179	2 559	11 948	13 097	23 141	1 358
31331	Textile & fabric finishing mills	9	20	1	c	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	9	18	1	c	D	D	D	D	D	D	D	D
314	Textile product mills	1	127	18	1 668	30 879	1 294	2 321	19 358	61 363	61 412	122 238	4 035
3141	Textile furnishings mills	3	47	5	699	11 221	564	1 053	8 082	18 842	23 388	42 246	739
31412	Curtain & linen mills	2	43	5	678	10 795	546	1 021	7 774	17 707	21 606	39 329	669
314121	Curtain & drapery mills	3	35	1	184	2 563	140	222	1 500	4 890	3 861	8 657	233
314129	Other household textile product mills	2	8	4	494	8 232	406	799	6 274	12 817	17 745	30 672	436
3149	Other textile product mills	1	80	13	969	19 658	730	1 268	11 276	42 521	38 024	79 992	3 296
31491	Textile bag & canvas mills	2	36	3	255	5 551	186	316	2 790	14 358	10 517	24 446	510
314912	Canvas & related product mills	2	24	2	199	4 145	139	223	2 163	11 083	8 480	19 148	351
31499	All other textile product mills	1	44	10	714	14 107	544	952	8 486	28 163	27 507	55 546	2 786
314999	All other miscellaneous textile product mills	1	41	9	f	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	MINNESOTA—Con. Manufacturing—Con.												
315	Apparel mfg	1	117	26	2 442	45 691	1 992	4 029	32 497	76 767	68 575	143 317	2 336
3151	Apparel knitting mills	—	6	3	682	15 159	605	1 368	12 954	24 175	22 285	45 595	968
31519	Other apparel knitting mills	—	6	3	682	15 159	605	1 368	12 954	24 175	22 285	45 595	968
315191	Outerwear knitting mills	—	6	3	682	15 159	605	1 368	12 954	24 175	22 285	45 595	968
3152	Cut & sew apparel mfg	2	74	16	1 311	21 785	1 007	1 914	13 989	33 033	25 729	58 614	791
31521	Cut & sew apparel contractors	5	39	6	452	6 085	369	652	4 399	8 866	2 466	11 420	360
315211	Men's & boys' cut & sew apparel contractors	2	6	3	141	1 891	77	131	852	2 466	437	2 933	79
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	33	3	311	4 194	292	521	3 547	6 400	2 029	8 487	281
31522	Men's & boys' cut & sew apparel mfg	2	13	6	287	4 390	194	349	2 553	7 348	6 887	13 781	252
315228	Men's & boys' cut & sew other outerwear mfg	2	9	5	251	3 964	165	305	2 265	6 972	6 235	12 747	238
31523	Women's & girls' cut & sew apparel mfg	1	16	3	516	10 094	396	803	6 217	14 818	15 153	29 568	148
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	4	2	390	7 714	301	656	4 961	9 645	11 186	20 725	D
3159	Apparel accessories & other apparel mfg	2	37	7	449	8 747	380	747	5 554	19 559	20 561	39 108	577
31599	Apparel accessories & other apparel mfg	2	37	7	449	8 747	380	747	5 554	19 559	20 561	39 108	577
315991	Hat, cap, & millinery mfg	—	5	3	218	4 340	187	452	2 747	10 855	11 685	21 499	D
315999	Other apparel accessories & other apparel mfg	5	30	4	c	D	D	D	D	D	D	D	486
316	Leather & allied product mfg .	—	29	8	2 164	74 786	1 724	3 755	47 422	204 101	179 828	376 033	5 566
3161	Leather & hide tanning & finishing	—	4	2	e	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing	—	4	2	e	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing	—	4	2	e	D	D	D	D	D	D	D	D
3162	Footwear mfg	—	6	4	g	D	D	D	D	D	D	D	D
31621	Footwear mfg	—	6	4	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg .	—	5	3	g	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	1	19	2	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	1	19	2	e	D	D	D	D	D	D	D	D
316999	All other leather good mfg	—	11	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	—	363	110	15 356	500 827	12 346	24 165	360 882	1 053 736	1 442 283	2 499 139	62 828
3211	Sawmills & wood preservation	2	74	14	1 140	27 774	941	1 836	19 661	63 906	120 991	184 118	5 200
32111	Sawmills & wood preservation	2	74	14	1 140	27 774	941	1 836	19 661	63 906	120 991	184 118	5 200
321113	Sawmills	2	60	10	918	21 812	773	1 514	16 270	50 416	66 324	115 588	3 791
321114	Wood preservation ...	1	14	4	222	5 962	168	322	3 391	13 490	54 667	68 530	1 409
3212	Veneer, plywood, & engineered wood product mfg	—	41	25	2 736	86 875	2 132	4 505	62 112	178 256	256 065	432 648	24 400
32121	Veneer, plywood, & engineered wood product mfg	—	41	25	2 736	86 875	2 132	4 505	62 112	178 256	256 065	432 648	24 400
321213	Engineered wood member (except truss) mfg	—	2	2	e	D	D	D	D	D	D	D	D
321214	Truss mfg	—	20	13	1 128	30 517	798	1 609	17 283	55 398	71 855	127 347	D
321219	Reconstituted wood product mfg	—	12	9	1 266	47 148	1 062	2 275	37 812	93 552	152 088	245 151	16 633
3219	Other wood product mfg ...	—	248	71	11 480	386 178	9 273	17 824	279 109	811 574	1 065 227	1 882 373	33 228
32191	Millwork	—	84	25	8 089	314 339	6 628	13 145	231 034	650 355	858 855	1 514 799	23 459
321911	Wood window & door mfg	—	36	14	6 923	282 800	5 647	11 164	206 662	579 724	785 753	1 372 671	21 352
321912	Cut stock, resawing lumber, & planing....	—	28	6	795	22 130	679	1 432	17 981	49 344	49 112	97 673	1 411
321918	Other millwork (including flooring) ...	1	20	5	371	9 409	302	549	6 391	21 287	23 990	44 455	696
32192	Wood container & pallet mfg	3	70	21	1 173	16 807	892	1 365	11 941	36 520	47 166	83 614	2 682
321920	Wood container & pallet mfg	3	70	21	1 173	16 807	892	1 365	11 941	36 520	47 166	83 614	2 682

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	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg—Con.												
32199	All other wood product mfg	1	94	25	2 218	55 032	1 753	3 314	36 134	124 699	159 206	283 960	7 087
321991	Manufactured home (mobile home) mfg ..	—	4	4	708	17 750	609	1 130	14 289	55 156	59 314	114 743	1 972
321992	Prefabricated wood building mfg	—	18	7	539	15 797	339	643	6 958	26 733	57 715	84 799	2 702
321999	All other miscellaneous wood product mfg ...	4	72	14	971	21 485	805	1 541	14 887	42 810	42 177	84 418	2 413
322	Paper mfg	—	130	82	15 349	619 546	11 875	24 416	432 812	1 926 768	2 099 082	4 049 622	346 997
3221	Pulp, paper, & paperboard mills	—	11	10	5 554	281 422	4 442	8 968	212 856	804 622	972 531	1 788 512	267 025
32212	Paper mills	—	7	7	5 122	265 826	4 081	8 158	201 003	730 102	919 261	1 657 567	249 837
322121	Paper (except newsprint) mills	—	5	5	h	D	D	D	D	D	D	D	D
322122	Newsprint mills	—	2	2	f	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	—	119	72	9 795	338 124	7 433	15 448	219 956	1 122 146	1 126 551	2 261 110	79 972
32221	Paperboard container mfg	—	59	43	4 570	153 869	3 418	6 759	98 116	372 139	537 324	909 363	35 515
322211	Corrugated & solid fiber box mfg	—	37	29	3 229	104 399	2 380	4 650	64 908	261 645	408 799	669 349	23 915
322212	Folding paperboard box mfg	—	15	12	1 210	46 202	931	1 914	30 903	101 058	118 731	220 850	11 205
32222	Paper bag & coated & treated paper mfg	—	25	11	2 781	109 042	2 183	4 889	78 003	615 421	423 091	1 050 014	29 101
322222	Coated & laminated paper mfg	—	18	7	2 232	90 783	1 766	3 981	64 027	568 804	330 976	908 959	22 439
322223	Plastics, foil, & coated paper bag mfg	—	2	2	c	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	—	2	1	c	D	D	D	D	D	D	D	D
322225	Laminated aluminum foil mfg for flexible packaging uses	—	1	1	c	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	19	12	1 946	64 436	1 463	3 079	37 313	103 256	127 327	230 113	13 754
322231	Die-cut paper & paperboard office supplies mfg	—	7	4	g	D	D	D	D	D	D	D	7 377
322232	Envelope mfg	—	8	6	672	25 851	533	1 116	15 228	51 882	55 119	106 431	D
322233	Stationery, tablet, & related product mfg ..	—	4	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	—	16	6	498	10 777	369	721	6 524	31 330	38 809	71 620	1 602
322291	Sanitary paper product mfg	—	3	2	c	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	—	13	4	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	1 022	271	35 581	1 153 070	24 636	47 859	688 428	2 605 299	1 703 977	4 308 076	211 723
3231	Printing & related support activities	1	1 022	271	35 581	1 153 070	24 636	47 859	688 428	2 605 299	1 703 977	4 308 076	211 723
32311	Printing	1	902	241	32 319	1 027 248	22 412	43 175	614 448	2 329 420	1 649 973	3 977 260	194 083
323110	Commercial lithographic printing ..	1	434	141	22 493	742 967	16 085	31 374	460 631	1 550 683	1 157 927	2 711 007	143 279
323112	Commercial flexographic printing ..	2	24	12	937	33 775	592	1 136	18 461	81 535	77 460	158 899	11 660
323113	Commercial screen printing	—	108	26	2 901	72 935	1 886	3 399	39 323	205 319	107 055	308 312	13 748
323114	Quick printing	2	198	18	1 516	39 887	1 037	1 759	21 783	86 167	47 803	134 101	5 312
323115	Digital printing	7	12	1	127	4 005	89	180	2 342	7 983	5 606	13 547	691
323116	Manifold business form printing	—	24	15	1 884	55 633	1 070	2 033	28 627	178 742	105 129	285 953	3 550
323117	Book printing	2	15	10	662	23 370	472	952	13 998	48 814	42 154	90 418	3 005
323118	Blankbook, looseleaf binder, & device mfg ..	—	12	7	733	19 870	498	958	10 637	110 884	47 243	156 666	D
323119	Other commercial printing	3	69	10	1 013	32 823	652	1 325	17 223	53 627	54 459	107 571	3 170
32312	Support activities for printing	—	120	30	3 262	125 822	2 224	4 684	73 980	275 879	54 004	330 816	17 640
323121	Tradebinding & related work	1	47	9	696	19 033	600	1 157	13 763	33 818	7 184	41 285	1 185
323122	Prepress services	—	73	21	2 566	106 789	1 624	3 527	60 217	242 061	46 820	289 531	16 455

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	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
324	Petroleum & coal products mfg.....	-	29	12	2 083	108 260	1 490	3 403	75 375	860 032	2 592 580	3 451 225	41 184
3241	Petroleum & coal products mfg.....	-	29	12	2 083	108 260	1 490	3 403	75 375	860 032	2 592 580	3 451 225	41 184
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.....	-	22	8	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture & block mfg.....	-	16	4	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
325	Chemical mfg.....	1	239	84	8 707	351 710	4 970	9 934	160 756	1 657 205	1 169 621	2 826 746	130 293
3251	Basic chemical mfg.....	2	33	12	539	20 594	305	650	10 182	119 259	131 550	250 796	23 416
32519	Other basic organic chemical mfg.....	2	17	10	381	14 284	221	478	7 041	86 896	112 256	198 521	D
325193	Ethyl alcohol mfg.....	1	7	4	135	4 548	90	209	3 115	26 008	68 677	94 334	2 962
325199	All other basic organic chemical mfg.....	3	10	6	246	9 736	131	269	3 926	60 888	43 579	104 187	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	-	4	3	115	4 413	72	152	2 422	21 559	39 113	60 831	D
32521	Resin & synthetic rubber mfg.....	-	4	3	115	4 413	72	152	2 422	21 559	39 113	60 831	D
325211	Plastics material & resin mfg.....	-	4	3	115	4 413	72	152	2 422	21 559	39 113	60 831	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg.....	2	19	2	154	5 860	111	208	3 130	28 832	50 023	83 045	10 196
32531	Fertilizer mfg.....	5	15	1	c	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg.....	5	14	1	c	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	1	42	17	1 892	75 318	873	1 517	24 613	517 175	195 272	712 764	20 511
32541	Pharmaceutical & medicine mfg.....	1	42	17	1 892	75 318	873	1 517	24 613	517 175	195 272	712 764	20 511
325411	Medicinal & botanical mfg.....	2	9	3	481	21 989	225	456	5 990	48 810	75 002	124 875	9 514
325412	Pharmaceutical preparation mfg.....	-	15	7	640	25 035	291	527	7 681	405 325	90 409	495 788	5 293
325413	In-vitro diagnostic substance mfg.....	2	8	4	538	21 040	223	256	7 107	46 367	21 362	67 019	4 845
325414	Biological product (except diagnostic) mfg.....	2	10	3	233	7 254	134	278	3 835	16 673	8 499	25 082	859
3255	Paint, coating, & adhesive mfg.....	2	25	9	636	25 058	274	516	7 960	72 312	94 262	169 523	D
32551	Paint & coating mfg.....	2	17	6	486	18 443	171	323	4 735	41 609	49 185	93 895	3 692
325510	Paint & coating mfg.....	2	17	6	486	18 443	171	323	4 735	41 609	49 185	93 895	3 692
32552	Adhesive mfg.....	1	8	3	150	6 615	103	193	3 225	30 703	45 077	75 628	D
325520	Adhesive mfg.....	1	8	3	150	6 615	103	193	3 225	30 703	45 077	75 628	D
3256	Soap, cleaning compound, & toilet preparation mfg.....	2	57	20	3 520	145 535	2 267	4 652	78 923	692 516	468 213	1 154 396	55 492
32561	Soap & cleaning compound mfg.....	4	42	12	1 864	84 910	1 147	2 616	45 126	370 519	284 142	655 694	41 815
325611	Soap & other detergent mfg.....	7	15	5	377	13 663	265	504	8 799	122 080	78 933	201 415	5 447
325612	Polish & other sanitation good mfg.....	6	24	6	f	D	D	D	D	D	D	D	D
325613	Surface active agent mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg.....	-	15	8	1 656	60 625	1 120	2 036	33 797	321 997	184 071	498 702	13 677
325620	Toilet preparation mfg.....	-	15	8	1 656	60 625	1 120	2 036	33 797	321 997	184 071	498 702	13 677
3259	Other chemical product mfg.....	1	59	21	1 851	74 932	1 068	2 239	33 526	205 552	191 188	395 391	12 923
32591	Printing ink mfg.....	-	13	6	460	19 728	249	543	9 071	49 164	56 356	104 363	2 819
325910	Printing ink mfg.....	-	13	6	460	19 728	249	543	9 071	49 164	56 356	104 363	2 819
32599	All other chemical product & preparation mfg.....	1	41	13	1 298	49 773	756	1 548	21 053	139 033	123 126	262 387	9 582
325991	Custom compounding of purchased resin...	-	18	3	610	25 072	356	726	10 075	59 417	78 408	138 195	6 181
325992	Photographic film, paper, plate, & chemical mfg.....	1	7	5	195	6 102	85	153	2 163	14 763	10 300	24 940	1 101
325998	All other miscellaneous chemical product & preparation mfg.....	2	16	5	493	18 599	315	669	8 815	64 853	34 418	99 252	2 300

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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)				
MINNESOTA—Con.													
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	1	406	186	20 372	618 612	14 869	29 391	360 779	1 555 113	1 302 161	2 846 002	160 472
3261	Plastics product mfg	1	358	167	18 263	555 361	13 344	26 295	321 755	1 367 510	1 200 701	2 555 120	143 956
32611	Unsupported plastics film, sheet, & bag mfg ..	—	44	23	2 675	84 566	1 950	4 276	50 525	240 776	311 087	548 817	21 497
326111	Unsupported plastics bag mfg	1	14	6	496	16 788	305	541	6 809	32 895	36 393	68 883	4 584
326112	Unsupported plastics packaging film & sheet mfg	—	5	5	601	19 397	405	953	12 220	47 232	84 547	132 646	4 219
326113	Unsupported plastics film & sheet (except packaging) mfg	—	25	12	1 578	48 381	1 240	2 782	31 496	160 649	190 147	347 288	12 694
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	24	9	757	22 142	591	1 091	14 302	72 133	80 503	151 885	5 080
326121	Unsupported plastics profile shape mfg	4	17	5	372	11 801	272	497	7 391	30 674	25 904	55 956	2 519
326122	Plastics pipe & pipe fitting mfg	—	7	4	385	10 341	319	594	6 911	41 459	54 599	95 929	2 561
32613	Laminated plastics plate, sheet, & shape mfg	2	23	4	405	11 995	257	424	5 843	29 978	16 619	45 829	8 524
326130	Laminated plastics plate, sheet, & shape mfg	2	23	4	405	11 995	257	424	5 843	29 978	16 619	45 829	8 524
32614	Polystyrene foam product mfg	6	12	6	429	13 708	310	626	7 653	36 396	43 648	79 891	2 827
326140	Polystyrene foam product mfg	6	12	6	429	13 708	310	626	7 653	36 396	43 648	79 891	2 827
32615	Urethane & other foam product (except polystyrene) mfg	2	9	5	188	5 987	148	245	3 666	12 336	21 555	34 642	906
326150	Urethane & other foam product (except polystyrene) mfg	2	9	5	188	5 987	148	245	3 666	12 336	21 555	34 642	906
32616	Plastics bottle mfg	—	4	3	119	2 802	103	183	2 361	7 664	7 679	15 441	670
326160	Plastics bottle mfg	—	4	3	119	2 802	103	183	2 361	7 664	7 679	15 441	670
32619	Other plastics product mfg	1	242	117	13 690	414 161	9 985	19 450	237 405	968 227	719 610	1 678 615	104 452
326191	Plastics plumbing fixture mfg	1	10	3	160	4 253	123	241	2 683	16 187	8 327	24 542	527
326199	All other plastics product mfg	1	232	114	13 530	409 908	9 862	19 209	234 722	952 040	711 283	1 654 073	103 925
3262	Rubber product mfg	1	48	19	2 109	63 251	1 525	3 096	39 024	187 603	101 460	290 882	16 516
32629	Other rubber product mfg	1	38	18	2 015	60 606	1 450	2 947	37 363	182 958	91 799	276 602	16 152
326291	Rubber product mfg for mechanical use	1	16	11	880	25 376	648	1 351	16 349	54 916	34 333	89 663	3 985
326299	All other rubber product mfg	1	22	7	1 135	35 230	802	1 596	21 014	128 042	57 466	186 939	12 167
327	Nonmetallic mineral product mfg	1	324	97	12 991	439 322	9 572	19 373	276 436	1 356 353	926 760	2 271 911	107 010
3271	Clay product & refractory mfg	3	28	3	c	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ..	4	24	2	c	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	2	23	2	105	1 395	85	119	978	3 254	926	4 139	D
3272	Glass & glass product mfg ..	—	30	9	2 769	88 242	2 350	5 660	70 235	235 091	204 775	438 404	22 156
32721	Glass & glass product mfg	—	30	9	2 769	88 242	2 350	5 660	70 235	235 091	204 775	438 404	22 156
327213	Glass container mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	25	7	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	2	221	68	4 820	170 540	3 248	6 597	97 600	372 207	339 104	710 790	36 362
32732	Ready-mix concrete mfg ..	3	116	36	2 050	67 370	1 378	2 718	42 350	180 229	184 637	366 246	16 809
327320	Ready-mix concrete mfg	3	116	36	2 050	67 370	1 378	2 718	42 350	180 229	184 637	366 246	16 809
32733	Concrete pipe, brick, & block mfg	1	47	19	1 220	44 800	944	2 012	29 157	103 918	74 077	177 397	8 377
327331	Concrete block & brick mfg	1	32	13	790	29 591	626	1 362	20 438	57 704	54 094	111 002	5 176
327332	Concrete pipe mfg	2	15	6	430	15 209	318	650	8 719	46 214	19 983	66 395	3 201
32739	Other concrete product mfg	1	54	13	1 524	57 489	905	1 834	25 491	84 271	77 553	160 472	10 693
327390	Other concrete product mfg	1	54	13	1 524	57 489	905	1 834	25 491	84 271	77 553	160 472	10 693

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3279	Other nonmetallic mineral product mfg	—	44	17	5 220	176 972	3 825	6 860	106 084	742 160	378 799	1 112 014	46 613
32791	Abrasive product mfg	—	5	3	h	D	D	D	D	D	D	D	D
327910	Abrasive product mfg	—	5	3	h	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg	—	39	14	g	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg	1	25	9	1 375	39 932	1 236	2 379	33 740	114 946	34 063	153 461	5 597
327993	Mineral wool mfg	—	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	86	56	7 067	256 128	5 557	11 943	173 636	553 024	574 906	1 132 379	58 507
3311	Iron & steel mills & ferroalloy mfg	—	5	3	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	5	3	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	5	3	e	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	8	3	f	D	D	D	D	D	D	D	1 819
33121	Iron & steel pipes & tubes mfg from purchased steel	—	5	3	535	24 742	435	950	14 078	58 613	34 081	91 693	1 743
331210	Iron & steel pipes & tubes mfg from purchased steel	—	5	3	535	24 742	435	950	14 078	58 613	34 081	91 693	1 743
3313	Alumina & aluminum production & processing	—	3	3	525	17 528	402	794	10 707	38 949	111 374	148 933	D
33131	Alumina & aluminum production & processing	—	3	3	525	17 528	402	794	10 707	38 949	111 374	148 933	D
331314	Secondary smelting & alloying of aluminum	—	1	1	c	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	2	2	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	3	13	6	e	D	D	D	D	D	D	D	4 623
33141	Nonferrous metal (except aluminum) smelting & refining	—	1	1	c	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	—	1	1	c	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	6	11	5	e	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding	8	3	3	129	4 076	104	216	2 698	11 571	19 206	31 064	D
331492	Other nonferrous metal secondary smelting, refining, & alloying	3	8	2	c	D	D	D	D	D	D	D	D
3315	Foundries	—	57	41	5 101	175 161	4 000	8 637	119 203	360 669	241 571	602 770	34 435
33151	Ferrous metal foundries	—	23	19	1 717	56 240	1 407	2 893	41 121	133 443	81 540	213 941	10 787
331511	Iron foundries	—	14	12	1 220	40 273	1 001	2 100	29 488	91 118	47 820	138 676	6 632
331512	Steel investment foundries	—	2	2	c	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	7	5	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	34	22	3 384	118 921	2 593	5 744	78 082	227 226	160 031	388 829	23 648
331521	Aluminum die-casting foundries	—	6	5	612	23 822	496	1 052	17 371	57 989	40 847	98 591	6 755
331522	Nonferrous (except aluminum) die-casting foundries	—	5	5	463	16 384	368	785	10 368	30 342	24 508	55 329	D
331524	Aluminum foundries (except die-casting)	—	17	10	2 223	76 225	1 666	3 790	48 753	133 919	91 690	226 967	12 123
332	Fabricated metal product mfg	—	1 536	497	49 259	1 716 916	35 462	72 006	1 054 963	3 788 169	2 904 095	6 708 907	292 360
3321	Forging & stamping	2	95	57	8 265	282 875	6 375	13 117	180 832	529 332	452 496	985 953	44 448
33211	Forging & stamping	2	95	57	8 265	282 875	6 375	13 117	180 832	529 332	452 496	985 953	44 448
332114	Custom roll forming	—	8	5	298	14 666	137	264	3 496	23 909	26 160	49 939	186
332116	Metal stamping	2	83	51	7 875	265 006	6 156	12 720	175 262	497 318	420 947	922 830	44 077
3322	Cutlery & handtool mfg	—	45	21	2 471	85 870	1 567	3 259	42 377	194 748	197 530	385 306	19 297
33221	Cutlery & handtool mfg	—	45	21	2 471	85 870	1 567	3 259	42 377	194 748	197 530	385 306	19 297
332212	Hand & edge tool mfg	—	37	19	2 291	79 265	1 442	3 007	39 344	191 097	180 208	365 091	17 540
332214	Kitchen utensil, pot, & pan mfg	—	2	1	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)				
	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg	1	261	100	7 275	230 491	5 139	10 195	138 789	527 168	458 447	981 694	35 588
33231	Plate work & fabricated structural product mfg ..	1	92	27	1 692	56 426	1 172	2 231	32 852	122 673	161 281	282 810	7 252
332311	Prefabricated metal building & component mfg	1	16	3	202	6 201	149	236	3 031	13 109	16 537	29 183	552
332312	Fabricated structural metal mfg	1	52	16	996	33 935	661	1 274	18 862	83 737	117 565	201 043	4 626
332313	Plate work mfg	1	24	8	494	16 290	362	721	10 959	25 827	27 179	52 584	2 074
33232	Ornamental & architectural metal products mfg.	1	169	73	5 583	174 065	3 967	7 964	105 937	404 495	297 166	698 884	28 336
332321	Metal window & door mfg	-	25	14	1 173	31 531	746	1 431	15 142	77 408	77 442	152 921	2 661
332322	Sheet metal work mfg.	-	107	51	3 840	126 846	2 823	5 738	81 571	289 369	188 257	476 611	22 389
332323	Ornamental & architectural metal work mfg	3	37	8	570	15 688	398	795	9 224	37 718	31 467	69 352	3 286
3324	Boiler, tank, & shipping container mfg	-	40	23	3 156	120 904	2 470	5 469	91 208	280 629	519 649	781 800	15 373
33241	Power boiler & heat exchanger mfg	-	14	7	634	24 405	417	859	14 464	61 118	67 655	133 408	1 814
332410	Power boiler & heat exchanger mfg	-	14	7	634	24 405	417	859	14 464	61 118	67 655	133 408	1 814
33242	Metal tank (heavy gauge) mfg	-	14	7	1 442	49 056	1 142	2 617	36 610	83 240	129 609	214 841	10 173
332420	Metal tank (heavy gauge) mfg	-	14	7	1 442	49 056	1 142	2 617	36 610	83 240	129 609	214 841	10 173
33243	Metal can, box, & other metal container (light gauge) mfg	-	12	9	1 080	47 443	911	1 993	40 134	136 271	322 385	433 551	3 386
332431	Metal can mfg.	-	8	7	f	D	D	D	D	D	D	D	3 167
332439	Other metal container mfg	3	4	2	c	D	D	D	D	D	D	D	219
3325	Hardware mfg.	-	17	5	1 083	36 134	793	1 520	20 102	94 308	46 404	140 005	4 725
33251	Hardware mfg.	-	17	5	1 083	36 134	793	1 520	20 102	94 308	46 404	140 005	4 725
332510	Hardware mfg.	-	17	5	1 083	36 134	793	1 520	20 102	94 308	46 404	140 005	4 725
3326	Spring & wire product mfg .	-	42	16	1 313	36 688	954	1 898	23 193	82 760	67 848	148 975	11 567
33261	Spring & wire product mfg	-	42	16	1 313	36 688	954	1 898	23 193	82 760	67 848	148 975	11 567
332612	Spring (light gauge) mfg	-	6	2	114	3 635	87	189	2 582	7 055	3 674	10 547	D
332618	Other fabricated wire product mfg	-	33	13	1 144	31 600	821	1 624	19 469	72 146	60 074	130 781	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg.	1	714	167	12 745	453 956	9 942	20 465	310 908	958 950	466 877	1 424 111	100 832
33271	Machine shops	1	610	113	8 966	313 103	6 894	13 695	210 986	672 663	319 758	995 605	70 601
332710	Machine shops	1	610	113	8 966	313 103	6 894	13 695	210 986	672 663	319 758	995 605	70 601
33272	Turned product & screw, nut, & bolt mfg	-	104	54	3 779	140 853	3 048	6 770	99 922	286 287	147 119	428 506	30 231
332721	Precision turned product mfg	-	95	50	3 457	128 428	2 786	6 223	90 928	259 526	136 126	390 753	29 326
332722	Bolt, nut, screw, rivet, & washer mfg	-	9	4	322	12 425	262	547	8 994	26 761	10 993	37 753	905
3328	Coating, engraving, heat treating, & allied activities.	2	173	64	4 524	130 030	3 523	6 972	83 659	264 116	132 209	396 367	25 368
33281	Coating, engraving, heat treating, & allied activities	2	173	64	4 524	130 030	3 523	6 972	83 659	264 116	132 209	396 367	25 368
332811	Metal heat treating	-	12	8	395	14 303	320	637	9 453	32 050	13 962	45 988	6 494
332812	Metal coating/engraving (exc jewelry/silverware)/ allied services	-	77	30	1 912	51 666	1 473	2 856	33 736	111 465	50 749	161 716	9 103
332813	Electroplating, plating, polishing, anodizing, & coloring	4	84	26	2 217	64 061	1 730	3 479	40 470	120 601	67 498	188 663	9 771
3329	Other fabricated metal product mfg	-	149	44	8 427	339 968	4 699	9 111	163 895	856 158	562 635	1 464 696	35 162
33291	Metal valve mfg	-	31	18	2 855	107 027	1 745	3 652	59 453	282 523	150 650	438 738	10 983
332911	Industrial valve mfg ...	-	10	8	g	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg	-	19	10	1 443	53 798	951	2 159	32 829	158 670	70 122	230 789	6 807

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MINNESOTA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg—Con.												
33299	All other fabricated metal product mfg.....	-	118	26	5 572	232 941	2 954	5 459	104 442	573 635	411 985	1 025 958	24 179
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
332996	Fabricated pipe & pipe fitting mfg.....	-	13	4	315	10 805	243	504	6 792	23 076	19 495	42 536	1 523
332997	Industrial pattern mfg.....	-	17	2	159	6 752	128	245	4 888	12 754	2 857	15 470	1 138
332999	All other miscellaneous fabricated metal product mfg.....	1	78	17	952	28 923	684	1 245	17 403	75 187	39 333	117 708	3 547
333	Machinery mfg.....	-	904	323	39 285	1 444 057	24 665	49 047	741 432	3 796 346	3 582 092	7 387 437	238 244
3331	Agriculture, construction, & mining machinery mfg.....	-	119	52	7 303	214 004	5 394	10 150	140 453	696 073	1 112 269	1 828 076	55 290
33311	Agricultural implement mfg.....	-	82	32	4 430	119 068	3 456	6 039	83 697	431 336	578 957	1 005 036	33 928
333111	Farm machinery & equipment mfg.....	1	74	29	h	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	-	8	3	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	-	31	19	2 815	93 095	1 902	4 049	55 819	260 423	524 439	808 178	21 303
333120	Construction machinery mfg.....	-	31	19	2 815	93 095	1 902	4 049	55 819	260 423	524 439	808 178	21 303
3332	Industrial machinery mfg ..	-	117	43	4 346	174 097	2 232	4 352	64 207	464 653	372 401	823 790	15 258
33321	Sawmill & woodworking machinery mfg.....	-	11	5	685	24 348	395	679	9 644	52 153	39 543	88 739	1 744
333210	Sawmill & woodworking machinery mfg.....	-	11	5	685	24 348	395	679	9 644	52 153	39 543	88 739	1 744
33322	Plastics & rubber industry machinery mfg.....	1	7	1	182	8 138	120	231	3 918	15 973	10 037	27 405	769
333220	Plastics & rubber industry machinery mfg.....	1	7	1	182	8 138	120	231	3 918	15 973	10 037	27 405	769
33329	Other industrial machinery mfg.....	-	99	37	3 479	141 611	1 717	3 442	50 645	396 527	322 821	707 646	12 745
333293	Printing machinery & equipment mfg.....	1	17	5	387	14 837	142	284	4 267	29 305	17 370	45 372	642
333294	Food product machinery mfg.....	-	24	15	936	35 942	557	1 147	17 726	72 645	60 895	131 924	2 765
333295	Semiconductor machinery mfg.....	-	6	5	1 207	59 276	423	892	13 442	219 027	192 336	405 736	D
333298	All other industrial machinery mfg.....	3	46	9	848	27 642	543	1 029	13 684	62 770	43 325	103 174	4 158
3333	Commercial & service industry machinery mfg ..	-	84	36	4 304	171 951	2 465	4 918	74 168	505 718	377 409	881 733	26 045
33331	Commercial & service industry machinery mfg.....	-	84	36	4 304	171 951	2 465	4 918	74 168	505 718	377 409	881 733	26 045
333311	Automatic vending machine mfg.....	-	8	3	467	16 501	348	720	8 876	46 366	25 712	72 250	1 420
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	11	7	335	16 499	175	350	6 905	30 351	17 393	49 885	2 483
333315	Photographic & photocopying equipment mfg.....	-	12	5	e	D	D	D	D	D	D	D	573
333319	Other commercial & service industry machinery mfg.....	-	46	18	2 810	112 025	1 662	3 348	50 143	364 341	285 069	645 624	20 850
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	-	63	25	4 798	180 430	2 750	5 414	81 782	429 655	469 941	902 354	21 673
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	63	25	4 798	180 430	2 750	5 414	81 782	429 655	469 941	902 354	21 673
333411	Air purification equipment mfg.....	3	11	2	139	4 459	67	112	1 444	9 154	6 161	15 498	399
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.....	1	27	7	1 057	35 549	646	1 523	18 605	87 222	64 596	153 711	6 331
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	-	18	12	3 210	128 021	1 782	3 335	55 396	308 912	376 136	686 547	14 127

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MINNESOTA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3335	Metalworking machinery mfg	1	282	75	6 159	244 729	4 495	9 033	159 723	490 719	219 927	713 067	44 454
33351	Metalworking machinery mfg	1	282	75	6 159	244 729	4 495	9 033	159 723	490 719	219 927	713 067	44 454
333512	Industrial mold mfg ...	—	111	28	1 565	67 813	1 257	2 585	49 851	115 175	38 701	156 547	15 033
333513	Machine tool (metal cutting types) mfg ...	1	9	6	753	28 418	515	984	17 481	51 446	51 140	109 293	2 761
333514	Machine tool (metal forming types) mfg ...	—	3	3	c	D	D	D	D	D	D	D	D
333515	Special die & tool, die set, jig, & fixture mfg .	1	111	25	2 607	104 409	1 829	3 768	65 324	238 631	72 871	308 410	20 646
333518	Cutting tool & machine tool accessory mfg ..	2	38	6	814	27 520	626	1 135	17 331	53 536	29 458	82 683	4 780
3336	Other metalworking machinery mfg	2	9	7	288	12 489	168	362	6 989	23 967	20 325	41 215	D
33361	Engine, turbine, & power transmission equipment mfg	2	20	8	824	30 474	569	1 209	18 549	71 683	49 339	119 926	7 762
333612	Engine, turbine, & power transmission equipment mfg	2	20	8	824	30 474	569	1 209	18 549	71 683	49 339	119 926	7 762
333613	Speed changer, industrial high-speed drive, & gear mfg	—	9	4	513	19 685	380	836	12 882	43 683	31 507	74 253	5 730
3339	Mechanical power transmission equipment mfg	7	5	3	209	7 441	119	242	3 494	19 909	11 522	31 305	1 447
33391	Other general-purpose machinery mfg	1	219	84	11 551	428 372	6 760	13 971	202 550	1 137 845	980 806	2 118 491	67 762
333911	Pump & compressor mfg	—	23	9	2 323	98 377	1 301	2 908	44 655	361 073	384 685	739 885	21 621
333912	Pump & pumping equipment mfg	—	10	4	1 492	69 830	865	2 017	33 300	252 556	225 351	473 720	14 315
33392	Air & gas compressor mfg	1	11	4	f	D	D	D	D	D	D	D	D
333921	Material handling equipment mfg	1	73	29	2 639	83 518	1 509	2 959	38 659	160 258	156 284	319 310	8 141
333922	Elevator & moving stairway mfg	5	6	2	237	8 765	150	353	4 904	13 016	15 123	28 585	745
333923	Conveyor & conveying equipment mfg	1	29	13	771	24 608	459	890	10 976	51 410	44 784	95 625	2 517
333924	Overhead traveling crane, hoist, & monorail system mfg .	1	18	5	594	16 836	321	638	7 915	40 076	36 657	78 257	1 463
33399	Industrial truck, tractor, trailer, & stacker machinery mfg	1	20	9	1 037	33 309	579	1 078	14 864	55 756	59 720	116 843	3 416
333991	All other general-purpose machinery mfg	1	123	46	6 589	246 477	3 950	8 104	119 236	616 514	439 837	1 059 296	38 000
333992	Power-driven handtool mfg	4	7	1	c	D	D	D	D	D	D	D	664
333993	Welding & soldering equipment mfg	—	5	1	225	11 981	202	484	5 803	57 441	38 234	91 871	D
333994	Packaging machinery mfg	—	29	14	2 049	77 349	1 258	2 621	40 430	145 614	124 914	276 938	9 213
333995	Industrial process furnace & oven mfg ..	5	9	6	672	27 440	352	742	12 192	80 477	38 191	120 339	1 927
333996	Fluid power cylinder & actuator mfg	—	9	5	833	32 138	512	1 140	15 388	68 628	53 203	122 780	2 998
333997	Fluid power pump & motor mfg	—	5	2	309	10 936	204	441	5 833	40 030	26 047	64 392	761
333999	Scale & balance (except laboratory) mfg	—	4	3	f	D	D	D	D	D	D	D	D
334	All other miscellaneous general-purpose machinery mfg	—	55	14	1 860	65 670	1 038	2 044	30 330	177 130	119 571	296 782	16 449
3341	Computer & electronic product mfg	—	473	244	60 752	2 467 296	32 142	65 502	890 383	6 130 917	4 904 121	10 951 792	790 622
33411	Computer & peripheral equipment mfg	—	64	28	17 323	821 843	7 451	17 131	206 749	1 483 434	2 195 645	3 621 237	411 681
334111	Computer & peripheral equipment mfg	—	64	28	17 323	821 843	7 451	17 131	206 749	1 483 434	2 195 645	3 621 237	411 681
334112	Electronic computer mfg	1	16	5	g	D	D	D	D	D	D	D	D
334119	Computer storage device mfg	—	13	9	8 426	314 008	5 361	11 716	144 004	533 797	488 095	1 017 640	302 757
3342	Other computer peripheral equipment mfg	—	32	13	7 340	425 404	1 837	4 110	53 120	943 440	1 602 839	2 462 090	92 843
33421	Communications equipment mfg	—	46	25	5 443	212 730	2 617	4 772	63 340	776 730	426 979	1 214 789	29 448
334210	Telephone apparatus mfg	—	17	10	2 227	101 196	851	1 584	19 141	338 144	134 815	474 074	17 635
334210	Telephone apparatus mfg	—	17	10	2 227	101 196	851	1 584	19 141	338 144	134 815	474 074	17 635

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3342	Communications equipment mfg—Con.												
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	16	9	1 926	63 824	1 072	1 899	25 194	289 098	203 615	505 933	6 790
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	16	9	1 926	63 824	1 072	1 899	25 194	289 098	203 615	505 933	6 790
33429	Other communications equipment mfg	-	13	6	1 290	47 710	694	1 289	19 005	149 488	88 549	234 782	5 023
334290	Other communications equipment mfg	-	13	6	1 290	47 710	694	1 289	19 005	149 488	88 549	234 782	5 023
3343	Audio & video equipment mfg	-	11	4	191	4 955	134	262	2 326	10 429	8 144	18 615	362
33431	Audio & video equipment mfg	-	11	4	191	4 955	134	262	2 326	10 429	8 144	18 615	362
334310	Audio & video equipment mfg	-	11	4	191	4 955	134	262	2 326	10 429	8 144	18 615	362
3344	Semiconductor & other electronic component mfg	-	170	98	17 047	528 137	11 212	21 493	267 761	1 263 337	1 077 553	2 315 483	209 495
33441	Semiconductor & other electronic component mfg	-	170	98	17 047	528 137	11 212	21 493	267 761	1 263 337	1 077 553	2 315 483	209 495
334412	Bare printed circuit board mfg	1	63	37	6 099	172 475	4 738	8 985	108 830	351 976	253 643	601 787	53 415
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	-	3	3	e	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg	6	11	5	e	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	10	7	451	15 025	307	586	7 388	34 729	14 383	48 806	1 824
334418	Printed circuit assembly (electronic assembly) mfg	-	21	18	4 175	130 516	2 296	4 188	44 132	345 385	477 693	812 213	26 731
334419	Other electronic component mfg	-	45	18	3 621	98 662	2 336	4 473	54 813	228 942	197 286	426 087	18 283
3345	Navigational, measuring, medical, & control instruments mfg	-	158	77	19 756	867 862	10 035	20 530	330 958	2 519 683	1 147 009	3 655 190	125 139
33451	Navigational, measuring, medical, & control instruments mfg	-	158	77	19 756	867 862	10 035	20 530	330 958	2 519 683	1 147 009	3 655 190	125 139
334510	Electromedical & electrotherapeutic apparatus mfg	-	44	27	7 839	339 365	3 972	8 363	105 643	1 344 152	428 325	1 759 960	30 961
334511	Search, detection, navigation, & guidance instrument mfg	-	9	4	2 700	128 309	1 241	2 348	49 108	210 448	106 280	316 235	22 000
334512	Automatic environmental control mfg	-	9	3	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	-	35	14	2 931	120 849	1 137	2 544	41 318	201 679	188 654	389 344	24 763
334514	Totalizing fluid meter & counting device mfg	-	4	3	e	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	-	17	8	612	26 471	310	619	8 108	64 127	22 956	84 302	3 441
334516	Analytical laboratory instrument mfg	-	11	5	845	40 430	384	723	15 098	115 511	44 057	158 506	4 541
334518	Watch, clock, & part mfg	3	3	2	c	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	-	25	11	1 999	96 546	1 192	2 310	49 920	243 084	130 332	372 374	13 495
3346	Mfg & reproducing magnetic & optical media	3	24	12	992	31 769	693	1 314	19 249	77 304	48 791	126 478	14 497
33461	Mfg & reproducing magnetic & optical media	3	24	12	992	31 769	693	1 314	19 249	77 304	48 791	126 478	14 497
334611	Software reproducing	9	8	2	201	8 809	164	345	6 053	26 648	13 922	40 707	4 789
334612	Pre-recorded 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	-	7	5	401	12 589	267	482	6 867	18 351	16 876	35 332	5 112

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31-33	MINNESOTA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	154	73	11 374	405 035	7 310	14 095	221 255	879 405	986 712	1 880 431	62 916
3351	Electric lighting equipment mfg	-	13	6	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	13	6	f	D	D	D	D	D	D	D	D
335129	Commercial/industrial/institutional electric lighting fixture mfg	1	7	3	178	4 867	110	235	2 372	12 363	4 101	16 138	551
335129	Other lighting equipment mfg	-	2	2	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg	-	5	3	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	2	2	g	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	91	40	6 001	220 690	3 332	6 003	104 107	357 710	575 146	952 753	30 618
33531	Electrical equipment mfg	-	91	40	6 001	220 690	3 332	6 003	104 107	357 710	575 146	952 753	30 618
335311	Power, distribution, & specialty transformer mfg	4	9	3	105	2 655	75	136	1 556	5 535	3 405	8 872	230
335312	Motor & generator mfg	-	24	13	2 751	124 229	1 653	2 839	61 975	130 934	370 846	497 614	9 777
335313	Switchgear & switchboard apparatus mfg	3	15	5	459	15 946	347	713	10 405	47 552	35 730	84 130	1 894
335314	Relay & industrial control mfg	-	43	19	2 686	77 860	1 257	2 315	30 171	173 689	165 165	362 137	18 717
3359	Other electrical equipment & component mfg	1	45	24	3 100	120 545	2 131	4 477	70 435	390 413	209 786	595 211	19 036
33592	Communication & energy wire & cable mfg	-	4	3	c	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg	-	3	2	156	2 217	128	255	1 946	12 342	6 595	18 946	163
33593	Wiring device mfg	-	11	5	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	8	3	240	5 763	174	266	2 142	17 129	17 174	35 203	D
335932	Noncurrent-carrying wiring device mfg	-	3	2	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	4	27	14	966	28 687	690	1 409	15 399	62 982	65 814	128 193	D
335999	All other miscellaneous electrical equipment & component mfg	4	26	14	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	203	77	14 629	439 197	11 274	20 948	301 641	2 296 327	2 781 599	5 012 254	117 476
3361	Motor vehicle mfg	-	4	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	-	45	16	1 512	39 559	1 126	2 136	23 432	85 316	120 193	204 624	3 734
33621	Motor vehicle body & trailer mfg	-	45	16	1 512	39 559	1 126	2 136	23 432	85 316	120 193	204 624	3 734
336211	Motor vehicle body mfg	-	19	7	567	15 183	410	798	9 301	36 237	50 424	86 612	1 342
336212	Truck trailer mfg	-	7	3	468	13 604	356	608	7 046	34 112	40 722	74 414	D
336214	Travel trailer & camper mfg	1	17	5	e	D	D	D	D	D	D	D	1 598
3363	Motor vehicle parts mfg	1	76	26	3 969	114 762	2 980	5 856	71 891	345 198	276 605	610 045	21 692
33631	Motor vehicle gasoline engine & engine parts mfg	-	24	4	932	30 762	750	1 588	22 684	90 089	64 272	151 607	5 070
336311	Carburetor, piston, piston ring, & valve mfg	-	5	2	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	19	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	2	17	8	1 276	32 267	968	1 476	17 825	65 038	69 085	132 411	4 739
336322	Other motor vehicle electrical & electronic equipment mfg	2	16	8	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	1	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	1	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	3	2	e	D	D	D	D	D	D	D	3 042
336350	Motor vehicle transmission & power train parts mfg	-	3	2	e	D	D	D	D	D	D	D	3 042

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	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33637	Motor vehicle metal stamping	-	4	2	c	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	4	2	c	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	1	20	9		21 439	725	1 570	13 640	95 946	54 595	150 075	6 229
336399	All other motor vehicle parts mfg	1	20	9		21 439	725	1 570	13 640	95 946	54 595	150 075	6 229
3364	Aerospace product & parts mfg	1	18	8	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	1	18	8	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	3	2	2	c	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	1	15	6	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	1	4	3	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	1	4	3	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	1	4	3	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	20	13	2 119	55 656	1 772	3 325	39 848	121 881	173 536	294 454	4 599
33661	Ship & boat building	-	20	13	2 119	55 656	1 772	3 325	39 848	121 881	173 536	294 454	4 599
336612	Boat building	-	18	13	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	36	10	3 936	78 471	2 854	4 459	48 095	519 204	861 962	1 336 633	15 440
33699	Other transportation equipment mfg	-	36	10	3 936	78 471	2 854	4 459	48 095	519 204	861 962	1 336 633	15 440
336991	Motorcycle, bicycle, & parts mfg	5	11	3	e	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	-	24	7	3 667	72 085	2 671	4 114	44 288	507 559	850 991	1 314 166	14 605
337	Furniture & related product mfg	1	514	105	11 619	323 667	8 811	16 923	208 685	686 979	593 351	1 280 827	43 767
3371	Household & institutional furniture & kitchen cabinet mfg	1	360	48	6 489	164 250	5 110	9 463	111 393	378 103	267 514	644 206	16 147
33711	Wood kitchen cabinet & counter top mfg	1	241	24	3 829	90 038	3 134	5 912	67 527	222 382	162 350	384 500	6 946
337110	Wood kitchen cabinet & counter top mfg	1	241	24	3 829	90 038	3 134	5 912	67 527	222 382	162 350	384 500	6 946
33712	Household & institutional furniture mfg	1	119	24	2 660	74 212	1 976	3 551	43 866	155 721	105 164	259 706	9 201
337121	Upholstered household furniture mfg	5	21	4	210	3 367	184	285	2 598	5 961	6 662	12 605	D
337122	Nonupholstered wood household furniture mfg	6	69	6	451	7 571	395	580	5 750	14 012	12 386	26 447	675
337124	Metal household furniture mfg	-	5	2	429	11 954	333	707	7 253	29 478	16 443	45 701	807
337127	Institutional furniture mfg	-	20	12	1 547	50 778	1 051	1 950	27 961	105 286	68 251	172 538	7 167
3372	Office furniture (including fixtures) mfg	1	132	51	4 236	135 566	3 001	6 082	81 915	270 629	215 068	486 892	12 460
33721	Office furniture (including fixtures) mfg	1	132	51	4 236	135 566	3 001	6 082	81 915	270 629	215 068	486 892	12 460
337211	Wood office furniture mfg	3	24	9	721	18 616	543	1 186	12 105	36 761	37 745	74 363	1 890
337212	Custom architectural woodwork & millwork mfg	1	35	15	827	25 301	602	1 295	16 296	46 063	35 803	81 951	2 060
337214	Office furniture (except wood) mfg	-	10	6	411	12 980	257	573	6 542	30 639	28 723	59 536	1 279
337215	Showcase, partition, shelving, & locker mfg	-	63	21	2 277	78 669	1 599	3 028	46 972	157 166	112 797	271 042	7 231
3379	Other furniture related product mfg	1	22	6	894	23 851	700	1 378	15 377	38 247	110 769	149 729	15 160
33791	Mattress mfg	2	17	4	f	D	D	D	D	D	D	D	D
337910	Mattress mfg	2	17	4	f	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	5	2	c	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	5	2	c	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)				
	MINNESOTA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	700	174	24 941	815 689	15 435	29 753	367 750	2 010 574	1 164 341	3 184 631	117 733
3391	Medical equipment & supplies mfg.....	1	313	98	15 472	571 725	9 125	17 851	233 085	1 368 273	582 677	1 955 431	82 700
33911	Medical equipment & supplies mfg.....	1	313	98	15 472	571 725	9 125	17 851	233 085	1 368 273	582 677	1 955 431	82 700
339111	Laboratory apparatus & furniture mfg.....	—	8	4	445	17 863	292	684	8 453	52 129	27 641	79 361	282
339112	Surgical & medical instrument mfg.....	1	79	32	9 039	381 812	4 727	9 754	138 236	879 264	340 838	1 227 556	56 190
339113	Surgical appliance & supplies mfg.....	1	61	29	2 771	88 463	1 827	3 414	37 702	258 454	114 317	374 913	14 848
339114	Dental equipment & supplies mfg.....	2	16	2	250	10 575	94	200	2 752	20 165	12 634	31 359	132
339115	Ophthalmic goods mfg.....	—	16	12	1 607	39 192	1 185	2 157	24 106	95 091	66 676	157 697	9 081
339116	Dental laboratories...	3	133	19	1 360	33 820	1 000	1 642	21 836	63 170	20 571	84 545	2 167
3399	Other miscellaneous mfg..	1	387	76	9 469	243 964	6 310	11 902	134 665	642 301	581 664	1 229 200	35 033
33991	Jewelry & silverware mfg.....	6	34	4	477	11 296	287	550	5 866	25 870	27 931	52 689	622
339911	Jewelry (except costume) mfg.....	6	21	3	394	9 863	232	481	5 097	23 018	25 645	47 554	517
33992	Sporting & athletic goods mfg.....	1	70	17	2 265	63 544	1 701	3 590	39 989	217 814	317 863	543 826	12 643
339920	Sporting & athletic goods mfg.....	1	70	17	2 265	63 544	1 701	3 590	39 989	217 814	317 863	543 826	12 643
33993	Doll, toy, & game mfg...	1	27	4	407	10 816	228	360	3 332	37 487	10 935	48 081	2 152
339931	Doll & stuffed toy mfg..	—	8	1	183	3 002	105	194	1 879	6 828	3 599	10 430	236
339932	Game, toy, & children's vehicle mfg.....	1	19	3	224	7 814	123	166	1 453	30 659	7 336	37 651	1 916
33995	Sign mfg.....	—	128	28	2 710	77 629	1 903	3 728	40 623	157 126	111 376	267 487	8 457
339950	Sign mfg.....	—	128	28	2 710	77 629	1 903	3 728	40 623	157 126	111 376	267 487	8 457
33999	All other miscellaneous mfg.....	1	113	23	3 539	79 268	2 140	3 597	43 847	200 219	111 780	311 552	11 026
339991	Gasket, packing, & sealing device mfg...	—	20	10	1 393	41 895	912	1 869	25 173	94 625	46 882	142 196	5 345
339994	Broom, brush, & mop mfg.....	—	4	3	266	7 580	183	444	3 988	18 086	14 818	32 764	610
339999	All other miscellaneous mfg.....	1	61	9	1 783	27 459	975	1 132	12 902	81 946	45 459	126 392	4 755

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)				
31-33	DULUTH-SUPERIOR, MN-WI MSA												
	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
31-33	FARGO-MOORHEAD, ND-MN MSA												
	Manufacturing	1	221	79	7 982	209 204	5 946	11 567	133 915	683 376	1 057 204	1 741 578	57 137
	Fargo-Moorhead, ND-MN MSA (MN Part)	-	38	11	1 225	35 699	999	2 021	27 458	57 541	174 280	229 403	10 969
	Fargo-Moorhead, ND-MN MSA (ND Part)	1	183	68	6 757	173 505	4 947	9 546	106 457	625 835	882 924	1 512 175	46 168

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	FARGO—MOORHEAD, ND—MN MSA—Con. Manufacturing—Con.												
311	Food mfg	2	28	16	1 656	45 863	1 235	2 632	31 845	125 340	474 746	602 618	16 727
3113	Sugar & confectionery product mfg	—	2	1	e	D	D	D	D	D	D	D	D
31131	Sugar mfg	—	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	—	1	1	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	7	6	5	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	7	6	5	e	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	3	2	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	8	3	343	8 435	168	347	3 733	23 008	12 367	35 379	1 329
31181	Bread & bakery product mfg	—	4	1	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	2	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	3	11	3	312	6 486	268	460	5 059	16 843	28 061	45 767	1 694
323	Printing & related support activities	3	30	7	466	11 380	362	650	7 888	26 486	13 746	40 151	1 838
3231	Printing & related support activities	3	30	7	466	11 380	362	650	7 888	26 486	13 746	40 151	1 838
32311	Printing	3	28	7	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	3	14	5	342	8 683	265	483	6 130	22 067	10 548	32 531	1 398
326	Plastics & rubber products mfg	—	15	8	654	14 257	469	912	8 720	37 053	45 478	81 319	8 967
3261	Plastics product mfg	—	13	7	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	—	3	2	e	D	D	D	D	D	D	D	D
326122	Plastics pipe & pipe fitting mfg	—	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	9	5	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	8	5	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	5	11	4	e	D	D	D	D	D	D	D	1 268
3273	Cement & concrete product mfg	5	9	4	e	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, & block mfg	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	29	9	674	17 723	505	895	10 737	47 382	51 087	98 101	2 251
3323	Architectural & structural metals mfg	1	12	6	478	12 228	366	655	7 481	23 320	40 482	63 656	D
33231	Plate work & fabricated structural product mfg	1	8	5	378	9 283	284	497	5 511	20 638	30 986	51 615	D
332312	Fabricated structural metal mfg	1	7	4	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	28	15	g	D	D	D	D	D	D	D	16 254
3331	Agriculture, construction, & mining machinery mfg	—	15	12	1 705	49 039	1 264	2 558	32 288	316 535	332 624	648 416	D
33311	Agricultural implement mfg	—	11	8	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	—	10	8	g	D	D	D	D	D	D	D	14 222
33312	Construction machinery mfg	2	3	3	e	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	2	3	3	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	4	2	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	2	1	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	2	1	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	12	5	797	16 368	666	1 173	10 486	28 857	33 265	62 397	2 271
3363	Motor vehicle parts mfg	2	5	3	559	9 632	503	864	6 413	15 253	14 807	30 071	D
33632	Motor vehicle electrical & electronic equipment mfg	—	2	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	—	2	2	e	D	D	D	D	D	D	D	D

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	FARGO—MOORHEAD, ND—MN MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	1	18	4	299	6 224	220	381	3 921	12 628	11 481	24 134	672
3371	Household & institutional furniture & kitchen cabinet mfg	1	16	4	e	D	D	D	D	D	D	D	D
31-33	GRAND FORKS, ND—MN MSA												
	Manufacturing	-	92	25	3 087	75 293	2 494	4 626	54 934	275 369	277 675	551 735	17 554
	Grand Forks, ND—MN MSA (MN Part)	-	40	12	1 350	36 299	1 107	2 064	26 606	130 024	168 604	300 278	4 252
	Grand Forks, ND—MN MSA (ND Part)	-	52	13	1 737	38 994	1 387	2 562	28 328	145 345	109 071	251 457	13 302
311	Food mfg	-	14	7	1 358	36 757	1 173	2 391	28 577	191 323	183 174	373 941	11 351
3113	Sugar & confectionery product mfg	-	2	1	e	D	D	D	D	D	D	D	D
31131	Sugar mfg	-	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	-	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	-	2	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	11	4	e	D	D	D	D	D	D	D	556
337	Furniture & related product mfg	-	6	3	258	5 180	217	438	4 343	9 576	9 878	19 802	D
31-33	LA CROSSE, WI—MN MSA												
	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

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	LA CROSSE, WI-MN MSA—Con.												
	Manufacturing—Con.												
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
	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
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

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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	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
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
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

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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.												
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
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

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
325	Chemical mfg—Con.												
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
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

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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.												
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
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

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
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
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

Table 2. Industry Statistics for Metropolitan Areas: 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	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
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
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

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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.												
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
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

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31-33	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
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
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

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	MINNEAPOLIS-ST. PAUL, MN-WI MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
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	14 789
337910	Mattress mfg	2	13	4	f	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
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
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	707
339911	Jewelry (except costume) mfg	6	17	3	e	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
339994	Broom, brush, & mop mfg	—	3	3	e	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
	ROCHESTER, MN MSA												
31-33	Manufacturing	—	77	30	10 477	482 127	4 949	10 067	126 924	1 040 943	2 133 306	3 085 395	105 658
311	Food mfg	—	12	6	1 496	42 365	1 288	2 687	35 448	114 526	478 607	591 104	5 360
3114	Fruit & vegetable preserving & specialty food mfg	—	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	1	1	e	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	1	1	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	4	4	825	26 682	686	1 405	22 336	89 067	365 560	451 884	4 174
31151	Dairy product (except frozen) mfg	—	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	—	2	2	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	—	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	11	6	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	—	11	6	f	D	D	D	D	D	D	D	D
32311	Printing	—	11	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	9	5	f	D	D	D	D	D	D	D	D

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)				
ROCHESTER, MN MSA													
—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	—	11	5	1 376	44 746	1 136	2 298	30 610	110 104	96 502	207 427	3 667
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
332116	Metal stamping	—	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	6	3	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	—	2	2	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	2	2	i	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	—	1	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	—	1	1	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	3	1	e	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	3	1	e	D	D	D	D	D	D	D	D
334510	Electromedical & electrotherapeutic apparatus mfg	—	1	1	e	D	D	D	D	D	D	D	D
ST. CLOUD, MN MSA													
31-33	Manufacturing	—	272	91	15 406	440 529	12 114	22 877	305 462	1 103 240	1 406 456	2 516 811	80 649
311	Food mfg	—	31	12	2 814	65 145	2 274	4 341	47 203	205 165	510 405	717 436	13 282
3115	Dairy product mfg	—	6	3	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	—	6	3	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	—	3	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	—	9	6	1 839	37 361	1 718	3 207	32 657	95 740	155 258	252 925	3 689
31161	Animal slaughtering & processing	—	9	6	1 839	37 361	1 718	3 207	32 657	95 740	155 258	252 925	3 689
311615	Poultry processing	—	4	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	8	1	e	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	8	1	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	2	14	6	729	21 087	572	1 196	15 389	46 501	53 143	99 157	1 141
3219	Other wood product mfg ...	2	13	6	f	D	D	D	D	D	D	D	D
32191	Millwork	1	8	6	686	20 302	539	1 135	14 771	44 694	51 190	95 388	1 007
321911	Wood window & door mfg	4	3	3	e	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, & planing	—	4	3	e	D	D	D	D	D	D	D	D
322	Paper mfg	—	4	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
323	Printing & related support activities	—	33	11	2 214	65 906	1 680	2 627	43 777	209 196	124 471	331 535	19 525
3231	Printing & related support activities	—	33	11	2 214	65 906	1 680	2 627	43 777	209 196	124 471	331 535	19 525
32311	Printing	—	30	11	2 200	65 561	1 670	2 610	43 539	208 546	124 348	330 763	D
323110	Commercial lithographic printing ..	—	15	5	1 692	51 811	1 342	2 025	36 770	113 279	81 398	193 779	10 614
323118	Blankbook, looseleaf binder, & device mfg ..	—	2	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	5	12	6	314	7 158	226	362	4 349	21 662	20 363	42 147	1 710
3261	Plastics product mfg	5	11	6	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	6	8	5	e	D	D	D	D	D	D	D	1 481
327	Nonmetallic mineral product mfg	—	24	6	1 237	37 037	1 129	2 183	32 290	109 798	37 318	152 137	6 141
3279	Other nonmetallic mineral product mfg	—	10	5	1 067	30 373	988	1 836	27 148	93 828	22 903	121 491	4 139
32799	All other nonmetallic mineral product mfg ...	—	10	5	1 067	30 373	988	1 836	27 148	93 828	22 903	121 491	4 139
327991	Cut stone & stone product mfg	—	10	5	1 067	30 373	988	1 836	27 148	93 828	22 903	121 491	4 139

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)				
	ST. CLOUD, MN MSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	42	15	1 731	52 452	1 166	2 572	31 192	111 130	78 094	190 828	7 242
3324	Boiler, tank, & shipping container mfg	-	5	3	e	D	D	D	D	D	D	D	677
33242	Metal tank (heavy gauge) mfg	-	4	3	e	D	D	D	D	D	D	D	677
332420	Metal tank (heavy gauge) mfg	-	4	3	e	D	D	D	D	D	D	D	677
3329	Other fabricated metal product mfg	-	4	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	2	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	21	6	797	27 220	559	1 015	13 881	64 406	59 325	120 793	6 772
3332	Industrial machinery mfg ..	-	5	2	e	D	D	D	D	D	D	D	1 514
33321	Sawmill & woodworking machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
333210	Sawmill & woodworking machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	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
335222	Household refrigerator & home freezer mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	11	5	536	14 808	422	667	7 870	31 604	36 521	68 497	767
3362	Motor vehicle body & trailer mfg	-	3	2	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	3	2	e	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	-	2	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	35	9	604	14 318	463	844	8 781	22 793	18 933	41 751	1 664
3371	Household & institutional furniture & kitchen cabinet mfg	2	31	7	525	11 891	405	754	7 715	18 473	15 091	33 474	1 331
33711	Wood kitchen cabinet & counter top mfg	1	24	3	375	8 525	293	555	5 749	13 580	10 654	24 193	963
337110	Wood kitchen cabinet & counter top mfg ...	1	24	3	375	8 525	293	555	5 749	13 580	10 654	24 193	963
339	Miscellaneous mfg	-	25	10	1 593	35 936	1 248	2 401	24 662	95 704	61 644	153 023	8 880
3391	Medical equipment & supplies mfg	-	13	9	1 532	34 271	1 206	2 331	23 923	92 486	59 428	147 569	8 605
33911	Medical equipment & supplies mfg	-	13	9	1 532	34 271	1 206	2 331	23 923	92 486	59 428	147 569	8 605
339113	Surgical appliance & supplies mfg	-	2	1	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	-	7	6	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 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)				
ANOKA COUNTY, MN													
31-33	Manufacturing	1	614	184	24 754	908 706	16 979	33 800	525 336	2 186 242	1 678 782	3 860 658	141 103
322	Paper mfg	-	10	6	533	19 648	390	797	12 780	39 965	77 428	117 172	6 806
3222	Converted paper product mfg	-	10	6	533	19 648	390	797	12 780	39 965	77 428	117 172	6 806
323	Printing & related support activities	1	48	8	976	33 889	687	1 320	20 208	73 572	51 005	123 852	9 813
3231	Printing & related support activities	1	48	8	976	33 889	687	1 320	20 208	73 572	51 005	123 852	9 813
32311	Printing	1	41	6	878	31 602	614	1 228	18 772	69 495	49 740	118 448	9 748
323110	Commercial lithographic printing	1	15	4	534	22 462	391	862	13 615	44 124	38 302	81 815	8 946
326	Plastics & rubber products mfg	3	27	15	1 780	49 784	1 227	2 556	30 069	141 568	107 412	249 205	12 355
3261	Plastics product mfg	4	25	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	3	22	11	1 226	31 566	853	1 773	19 550	86 779	74 307	161 080	9 223
326199	All other plastics product mfg	3	22	11	1 226	31 566	853	1 773	19 550	86 779	74 307	161 080	9 223
332	Fabricated metal product mfg	1	216	68	9 701	344 997	6 767	13 976	204 804	847 845	407 802	1 261 233	52 221
3321	Forging & stamping	5	14	9	2 894	95 158	2 255	5 032	66 257	193 482	150 344	347 935	11 909
33211	Forging & stamping	5	14	9	2 894	95 158	2 255	5 032	66 257	193 482	150 344	347 935	11 909
332116	Metal stamping	5	13	9	h	D	D	D	D	D	D	D	11 909
3323	Architectural & structural metals mfg	1	30	9	542	21 175	397	802	12 715	43 731	27 214	71 112	3 279
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	117	29	2 480	85 968	2 039	4 445	63 226	187 872	75 128	261 995	19 187
33271	Machine shops	-	98	21	1 715	57 854	1 398	2 822	41 856	127 553	40 911	169 069	10 833
332710	Machine shops	-	98	21	1 715	57 854	1 398	2 822	41 856	127 553	40 911	169 069	10 833
33272	Turned product & screw, nut, & bolt mfg	-	19	8	765	28 114	641	1 623	21 370	60 319	34 217	92 926	8 354
332721	Precision turned product mfg	-	18	8	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	1	26	11	519	16 722	394	806	10 296	33 764	18 431	52 288	2 676
33281	Coating, engraving, heat treating, & allied activities	1	26	11	519	16 722	394	806	10 296	33 764	18 431	52 288	2 676
3329	Other fabricated metal product mfg	-	16	5	h	D	D	D	D	D	D	D	14 448
33299	All other fabricated metal product mfg	-	16	5	h	D	D	D	D	D	D	D	14 448
332992	Small arms ammunition mfg	-	2	1	f	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	97	27	2 884	116 699	1 930	3 813	65 219	307 782	234 359	547 401	13 441
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	5	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	5	2	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	51	11	1 024	43 727	807	1 696	32 286	87 457	26 546	114 893	5 768
33351	Metalworking machinery mfg	1	51	11	1 024	43 727	807	1 696	32 286	87 457	26 546	114 893	5 768
333514	Special die & tool, die set, jig, & fixture mfg	-	24	6	663	26 746	527	1 139	20 373	59 614	15 145	73 905	3 423
334	Computer & electronic product mfg	-	31	14	2 013	62 327	1 298	2 344	35 861	145 984	96 874	241 988	9 041
3344	Semiconductor & other electronic component mfg	-	12	8	1 192	31 748	743	1 243	19 467	67 270	36 445	103 676	5 565
33441	Semiconductor & other electronic component mfg	-	12	8	1 192	31 748	743	1 243	19 467	67 270	36 445	103 676	5 565
334419	Other electronic component mfg	-	5	2	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)				
ANOKA COUNTY, MN—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	7	4	2 834	146 138	1 721	3 005	77 813	281 159	400 546	679 625	D
3353	Electrical equipment mfg ..	-	4	2	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	4	2	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	2	2	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	1	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	46	6	623	18 931	444	853	10 434	37 861	22 516	60 575	1 576
339	Miscellaneous mfg	2	47	14	1 152	43 070	742	1 529	18 928	94 148	51 777	143 878	7 338
3391	Medical equipment & supplies mfg	2	22	10	867	33 238	537	1 064	13 891	72 029	32 420	103 135	5 486
33911	Medical equipment & supplies mfg	2	22	10	867	33 238	537	1 064	13 891	72 029	32 420	103 135	5 486
BECKER COUNTY, MN													
31-33	Manufacturing	-	42	11	1 320	35 712	907	1 791	22 451	96 085	97 237	193 034	10 679
332	Fabricated metal product mfg	-	7	4	641	20 415	425	846	12 644	53 832	43 170	96 560	5 220
BELTRAMI COUNTY, MN													
31-33	Manufacturing	1	43	10	1 112	31 998	882	1 585	23 611	67 774	107 976	175 893	6 288
321	Wood product mfg	-	11	5	628	23 696	532	1 085	18 553	50 817	90 942	141 503	D
BENTON COUNTY, MN													
31-33	Manufacturing	-	53	25	2 797	71 389	1 921	3 713	38 680	184 027	117 787	300 173	8 364
311	Food mfg	-	8	4	816	20 490	456	884	9 252	59 981	29 736	90 392	D
339	Miscellaneous mfg	-	5	4	716	16 383	544	1 181	9 700	47 678	26 388	73 535	1 868
3391	Medical equipment & supplies mfg	-	3	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	3	3	f	D	D	D	D	D	D	D	D
BLUE EARTH COUNTY, MN													
31-33	Manufacturing	-	78	36	4 144	126 747	2 823	5 904	75 792	350 874	813 673	1 160 809	36 357
311	Food mfg	-	10	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	5	657	17 655	359	670	7 987	37 070	33 823	70 529	3 181
335	Electrical equipment, appliance, & component mfg	-	3	3	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
335312	Motor & generator 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)				
BROWN COUNTY, MN													
31-33	Manufacturing	-	41	18	4 292	113 017	3 419	6 240	79 634	849 948	733 581	1 580 773	31 413
311	Food mfg	-	7	5	1 367	32 526	1 184	2 049	27 206	419 691	482 528	900 647	16 056
3115	Dairy product mfg	-	5	4	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	5	4	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	2	2	g	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	9	6	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	9	6	1	f	D	D	D	D	D	D	D	D
32311	Printing	9	6	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	9	4	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	4	2	g	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
334510	Electromedical & electrotherapeutic apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
CARLTON COUNTY, MN													
31-33	Manufacturing	-	30	5	2 131	89 787	1 764	3 707	71 125	260 669	168 941	424 973	D
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
327	Nonmetallic mineral product mfg	-	5	1	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
32799	All other nonmetallic mineral product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	1	1	f	D	D	D	D	D	D	D	D
CARVER COUNTY, MN													
31-33	Manufacturing	1	143	69	10 470	391 651	6 484	13 568	193 627	972 717	946 808	1 919 956	81 408
311	Food mfg	-	9	7	1 413	42 623	1 248	3 027	31 777	130 923	260 401	393 645	10 758
3118	Bakeries & tortilla mfg	-	4	4	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	1	1	f	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	9	3	506	22 375	363	797	13 273	33 412	28 852	61 866	D
3231	Printing & related support activities.....	-	9	3	506	22 375	363	797	13 273	33 412	28 852	61 866	D
32311	Printing	-	9	3	506	22 375	363	797	13 273	33 412	28 852	61 866	D
326	Plastics & rubber products mfg	-	10	6	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	9	6	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	8	6	1 448	60 361	929	1 963	29 844	141 699	94 081	231 957	D
326199	All other plastics product mfg.....	-	8	6	1 448	60 361	929	1 963	29 844	141 699	94 081	231 957	D
332	Fabricated metal product mfg	1	33	14	762	27 572	566	1 082	16 210	57 829	39 724	97 008	3 238
333	Machinery mfg	-	18	11	1 702	71 732	773	1 504	23 563	214 519	195 683	409 518	2 376
3332	Industrial machinery mfg ..	-	7	4	f	D	D	D	D	D	D	D	1 282
33329	Other industrial machinery mfg	-	6	4	f	D	D	D	D	D	D	D	D
333295	Semiconductor 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)				
CARVER COUNTY, MN													
—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	16	11	1 966	64 753	1 087	2 329	31 528	128 431	142 909	269 870	14 840
3345	Navigational, measuring, medical, & control instruments mfg.....	-	5	4	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	5	4	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	16	8	1 695	70 320	771	1 384	27 507	116 791	61 942	179 557	2 441
3391	Medical equipment & supplies mfg.....	-	6	5	1 479	62 174	634	1 095	22 985	96 874	40 717	138 595	2 199
33911	Medical equipment & supplies mfg.....	-	6	5	1 479	62 174	634	1 095	22 985	96 874	40 717	138 595	2 199
339112	Surgical & medical instrument mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
CHIPPEWA COUNTY, MN													
31-33	Manufacturing	-	24	9	1 498	34 540	1 164	2 014	21 975	65 681	52 422	116 267	6 349
334	Computer & electronic product mfg.....	1	3	3	f	D	D	D	D	D	D	D	D
CHISAGO COUNTY, MN													
31-33	Manufacturing	1	101	33	2 462	70 280	1 916	3 485	42 901	138 196	142 177	282 052	14 282
326	Plastics & rubber products mfg.....	-	11	5	830	24 970	662	1 196	13 517	37 526	33 893	70 708	2 776
3261	Plastics product mfg.....	-	11	5	830	24 970	662	1 196	13 517	37 526	33 893	70 708	2 776
32619	Other plastics product mfg.....	-	8	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	-	7	5	f	D	D	D	D	D	D	D	D
CLAY COUNTY, MN													
31-33	Manufacturing	-	38	11	1 225	35 699	999	2 021	27 458	57 541	174 280	229 403	10 969
COTTONWOOD COUNTY, MN													
31-33	Manufacturing	-	16	4	930	20 511	762	1 362	15 083	176 646	320 072	486 880	10 085
333	Machinery mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	2	2	f	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.....	-	1	1	f	D	D	D	D	D	D	D	D
CROW WING COUNTY, MN													
31-33	Manufacturing	1	95	28	2 957	91 207	2 184	4 077	63 641	248 201	212 688	458 310	15 770
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DAKOTA COUNTY, MN												
31-33	Manufacturing	-	439	166	17 957	636 258	11 717	23 971	345 910	2 282 478	3 632 998	5 922 374	139 958
311	Food mfg.....	1	37	21	2 698	81 771	1 956	3 935	50 028	363 785	553 753	921 783	27 786
3113	Sugar & confectionery product mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg....	-	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	3	4	4	672	19 519	555	1 204	13 889	53 720	199 133	253 620	5 765
31161	Animal slaughtering & processing.....	3	4	4	672	19 519	555	1 204	13 889	53 720	199 133	253 620	5 765
312	Beverage & tobacco product mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	-	4	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
322	Paper mfg.....	-	7	5	1 415	47 572	1 040	2 238	28 436	70 967	105 657	176 584	14 144
3222	Converted paper product mfg.....	-	7	5	1 415	47 572	1 040	2 238	28 436	70 967	105 657	176 584	14 144
32223	Stationery product mfg..	-	1	1	f	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	64	16	1 338	43 665	808	1 475	21 357	110 283	81 916	192 311	6 000
3231	Printing & related support activities.....	1	64	16	1 338	43 665	808	1 475	21 357	110 283	81 916	192 311	6 000
32311	Printing.....	1	60	16	1 321	43 342	794	1 459	21 128	109 666	81 768	191 545	5 965
323116	Manifold business form printing.....	-	4	4	502	14 444	257	455	6 713	48 432	39 873	88 762	1 091
324	Petroleum & coal products mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries....	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries..	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	37	13	1 442	46 241	1 014	2 069	28 405	121 769	103 153	222 893	8 072
3261	Plastics product mfg.....	-	31	13	1 371	44 148	958	1 961	27 023	116 013	98 334	212 281	7 695
32619	Other plastics product mfg.....	-	18	10	1 034	31 614	752	1 518	20 268	84 725	55 538	137 815	4 831
326199	All other plastics product mfg.....	-	17	10	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	3	17	10	614	18 107	385	781	9 994	52 768	40 301	93 770	4 885
332	Fabricated metal product mfg.....	-	74	24	2 293	81 886	1 745	3 539	54 410	190 027	161 542	352 676	10 177
333	Machinery mfg.....	2	36	9	830	30 171	481	1 024	15 147	64 305	50 562	114 908	3 731
334	Computer & electronic product mfg.....	-	20	12	1 925	84 465	781	1 580	27 344	215 375	93 157	306 595	11 215
3345	Navigational, measuring, medical, & control instruments mfg.....	-	6	5	1 561	68 267	662	1 340	24 046	198 273	65 503	263 159	8 488
33451	Navigational, measuring, medical, & control instruments mfg.....	-	6	5	1 561	68 267	662	1 340	24 046	198 273	65 503	263 159	8 488
334511	Search, detection, navigation, & guidance instrument mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	-	29	10	869	23 795	642	1 303	15 477	85 341	67 473	152 398	1 412
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	24	6	582	15 357	462	876	11 021	64 788	51 359	115 928	989
339	Miscellaneous mfg.....	-	35	13	1 009	31 530	663	1 300	14 819	66 414	49 307	116 254	3 033
3391	Medical equipment & supplies mfg.....	-	19	8	525	16 153	356	638	7 715	29 596	31 747	61 892	1 264
33911	Medical equipment & supplies mfg.....	-	19	8	525	16 153	356	638	7 715	29 596	31 747	61 892	1 264

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DODGE COUNTY, MN													
31-33	Manufacturing	-	29	10	1 322	37 485	1 034	2 171	27 743	119 083	260 178	398 648	3 568
333	Machinery mfg	-	5	3	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
DOUGLAS COUNTY, MN													
31-33	Manufacturing	-	72	22	2 806	75 957	2 199	3 906	51 138	276 226	176 795	448 446	12 912
327	Nonmetallic mineral product mfg	-	4	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
333	Machinery mfg	-	10	4	858	27 502	667	1 302	18 463	56 770	30 908	86 369	3 186
3339	Other general-purpose machinery mfg	-	6	2	734	23 900	569	1 154	16 338	49 032	26 515	74 071	D
33399	All other general-purpose machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
FARIBAULT COUNTY, MN													
31-33	Manufacturing	-	28	18	1 578	36 487	1 222	2 505	24 103	87 840	165 072	260 614	7 423
311	Food mfg	-	8	5	587	12 995	488	1 163	9 915	35 426	77 001	112 505	4 325
FILLMORE COUNTY, MN													
31-33	Manufacturing	-	42	12	1 122	27 866	917	1 990	18 700	124 178	99 512	224 775	5 036
FREEBORN COUNTY, MN													
31-33	Manufacturing	-	66	24	3 062	86 731	2 380	4 769	61 172	221 138	350 884	564 544	16 017
311	Food mfg	-	7	5	1 009	26 871	841	1 823	18 435	91 671	229 484	314 088	5 653
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
337	Furniture & related product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	1	1	f	D	D	D	D	D	D	D	D
GOODHUE COUNTY, MN													
31-33	Manufacturing	-	81	36	5 522	166 561	4 094	8 466	105 532	403 785	571 218	972 768	27 679
311	Food mfg	-	14	7	637	15 471	462	905	10 095	37 330	290 527	335 259	9 957
316	Leather & allied product mfg .	-	6	4	g	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	2	g	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	2	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg .	-	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	3	540	13 936	367	701	9 320	30 873	25 253	56 718	2 288
337	Furniture & related product mfg	-	11	3	736	23 253	517	1 009	14 098	46 625	31 565	77 016	3 044

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HENNEPIN COUNTY, MN													
31-33	Manufacturing	1	2 404	835	106 772	4 090 149	65 257	134 711	1 954 488	9 754 719	7 524 011	17 291 574	1 037 039
311	Food mfg	1	123	41	5 192	169 283	3 077	6 151	81 590	513 824	717 938	1 243 504	40 986
3114	Fruit & vegetable preserving & specialty food mfg	1	8	3	717	20 412	216	460	4 066	3 990	40 050	44 054	5 767
31141	Frozen food mfg	—	4	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	3	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	6	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	—	4	3	g	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
3118	Bakeries & tortilla mfg	2	61	13	991	21 951	682	1 172	14 708	79 889	44 629	128 230	2 385
31181	Bread & bakery product mfg	5	53	9	f	D	D	D	D	D	D	D	2 179
3119	Other food mfg	2	22	11	1 339	39 643	1 013	2 018	24 918	124 658	125 771	255 764	18 066
31199	All other food mfg	2	15	9	1 132	35 802	931	1 804	22 565	108 333	101 500	215 126	D
311999	All other miscellaneous food mfg	3	11	5	698	24 511	529	1 019	13 116	79 921	77 295	157 289	D
315	Apparel mfg	2	47	8	506	10 447	395	760	5 740	23 518	23 847	46 004	521
322	Paper mfg	—	49	30	3 153	107 020	2 336	4 480	63 970	266 596	361 135	629 042	14 130
3222	Converted paper product mfg	—	49	30	3 153	107 020	2 336	4 480	63 970	266 596	361 135	629 042	14 130
32221	Paperboard container mfg	—	25	17	1 890	60 434	1 369	2 473	34 980	154 082	178 894	332 134	6 546
322211	Corrugated & solid fiber box mfg	—	15	11	1 390	41 303	989	1 726	22 799	106 146	132 618	238 319	4 781
32222	Paper bag & coated & treated paper mfg	—	11	6	f	D	D	D	D	D	D	D	4 043
323	Printing & related support activities	2	421	120	11 900	444 070	8 396	17 206	264 240	918 375	658 824	1 578 914	88 997
3231	Printing & related support activities	2	421	120	11 900	444 070	8 396	17 206	264 240	918 375	658 824	1 578 914	88 997
32311	Printing	2	353	99	10 179	373 297	7 114	14 592	219 988	776 508	631 226	1 409 355	79 539
323110	Commercial lithographic printing	2	156	55	7 024	271 286	4 865	10 332	160 384	556 060	444 714	1 001 620	58 638
323112	Commercial flexographic printing	1	14	8	508	17 080	338	680	10 935	45 992	49 334	95 163	8 757
323113	Commercial screen printing	1	44	10	660	20 862	516	911	10 690	37 699	35 452	73 900	3 615
323114	Quick printing	1	84	10	710	18 653	496	864	11 176	42 147	21 054	63 732	2 472
32312	Support activities for printing	1	68	21	1 721	70 773	1 282	2 614	44 252	141 867	27 598	169 559	9 458
323121	Tradebinding & related work	—	23	7	510	14 411	446	935	10 992	26 043	4 749	31 042	813
323122	Prepress services	1	45	14	1 211	56 362	836	1 679	33 260	115 824	22 849	138 517	8 645
325	Chemical mfg	1	77	27	2 859	104 676	1 469	2 672	35 861	378 981	283 459	665 687	25 900
3254	Pharmaceutical & medicine mfg	—	13	4	917	38 543	330	534	6 736	133 609	67 001	199 489	9 961
32541	Pharmaceutical & medicine mfg	—	13	4	917	38 543	330	534	6 736	133 609	67 001	199 489	9 961
3256	Soap, cleaning compound, & toilet preparation mfg	1	24	10	1 087	31 969	665	1 206	14 477	142 518	89 002	232 072	6 996
32562	Toilet preparation mfg	—	7	5	783	21 009	502	864	9 814	105 596	54 277	159 445	5 341
325620	Toilet preparation mfg	—	7	5	783	21 009	502	864	9 814	105 596	54 277	159 445	5 341
3259	Other chemical product mfg	1	20	9	566	23 535	303	603	9 109	57 848	63 366	121 653	4 019
326	Plastics & rubber products mfg	2	122	55	5 988	192 251	4 420	9 102	117 185	479 265	384 793	856 744	37 253
3261	Plastics product mfg	2	107	48	5 429	174 419	4 035	8 348	106 968	440 589	358 621	791 731	35 293
32611	Unsupported plastics film, sheet, & bag mfg	1	13	10	1 324	44 095	971	2 129	26 104	117 531	133 303	248 089	7 952
326113	Unsupported plastics film & sheet (except packaging) mfg	1	6	4	855	26 760	660	1 445	16 410	84 089	74 988	156 016	D
32619	Other plastics product mfg	2	75	32	3 803	120 273	2 876	5 875	76 177	293 365	194 136	483 410	25 337
326199	All other plastics product mfg	2	73	31	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	2	15	7	559	17 832	385	754	10 217	38 676	26 172	65 013	1 960
32629	Other rubber product mfg	2	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	34	10	1 061	39 750	759	1 617	25 586	93 041	96 392	187 935	7 607
3273	Cement & concrete product mfg	—	13	8	719	27 490	484	1 053	17 027	74 037	59 762	133 077	5 696

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HENNEPIN COUNTY, MN—Con.												
	Manufacturing—Con.												
331	Primary metal mfg	-	21	14	2 335	89 500	1 817	4 196	58 291	211 736	120 999	331 424	11 222
3315	Foundries	-	13	8	1 551	56 435	1 179	2 831	38 818	134 106	61 402	194 732	D
33152	Nonferrous metal foundries	-	9	6	g	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	446	159	13 402	492 584	9 710	20 078	302 030	995 033	638 076	1 632 992	87 074
3321	Forging & stamping	-	38	25	2 359	89 901	1 665	3 194	47 276	124 367	146 276	272 324	24 875
33211	Forging & stamping	-	38	25	2 359	89 901	1 665	3 194	47 276	124 367	146 276	272 324	24 875
332116	Metal stamping	-	33	22	2 151	77 754	1 595	3 058	45 438	104 539	122 565	228 807	D
3322	Cutlery & handtool mfg	-	18	8	655	26 843	365	735	10 698	44 171	49 585	87 417	D
33221	Cutlery & handtool mfg ..	-	18	8	655	26 843	365	735	10 698	44 171	49 585	87 417	D
332212	Hand & edge tool mfg ..	-	16	7	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	56	19	1 599	51 998	1 082	2 280	32 161	140 287	92 208	231 458	7 828
33232	Ornamental & architectural metal products mfg.	-	41	16	1 382	43 803	935	1 928	27 392	119 283	69 090	187 164	7 020
332322	Sheet metal work mfg ..	-	26	14	1 217	39 173	828	1 697	24 748	104 077	55 706	158 398	6 652
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	212	65	4 630	184 069	3 520	7 612	122 962	358 335	158 549	515 368	29 944
33271	Machine shops	1	171	36	2 674	104 867	1 945	4 097	67 993	207 321	91 062	297 770	18 283
332710	Machine shops	1	171	36	2 674	104 867	1 945	4 097	67 993	207 321	91 062	297 770	18 283
33272	Turned product & screw, nut, & bolt mfg	-	41	29	1 956	79 202	1 575	3 515	54 969	151 014	67 487	217 598	11 661
332721	Precision turned product mfg	-	36	26	g	D	D	D	D	D	D	D	10 920
3328	Coating, engraving, heat treating, & allied activities. Coating, engraving, heat treating, & allied activities	3	60	24	2 134	64 868	1 647	3 303	41 382	125 595	69 882	195 728	11 161
33281	Coating, engraving, heat treating, & allied activities	3	60	24	2 134	64 868	1 647	3 303	41 382	125 595	69 882	195 728	11 161
332813	Electroplating, plating, polishing, anodizing, & coloring	5	32	12	1 448	43 130	1 122	2 263	26 998	76 862	52 734	129 894	6 228
3329	Other fabricated metal product mfg	-	42	13	1 443	56 428	1 056	2 312	37 051	148 450	65 861	218 712	7 055
33291	Metal valve mfg	-	10	6	1 038	42 239	733	1 701	27 918	121 582	50 875	174 055	5 492
332912	Fluid power valve & hose fitting mfg	-	10	6	1 038	42 239	733	1 701	27 918	121 582	50 875	174 055	5 492
333	Machinery mfg	-	262	95	13 313	559 376	7 256	15 309	244 073	1 503 220	1 276 779	2 788 707	101 723
3331	Agriculture, construction, & mining machinery mfg	-	15	6	1 134	40 700	690	1 396	22 821	138 198	224 950	364 748	19 049
33312	Construction machinery mfg	-	5	3	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	5	3	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	33	12	1 318	56 489	680	1 494	23 934	140 827	104 671	242 996	7 116
33329	Other industrial machinery mfg	-	26	8	816	36 531	391	878	14 181	99 264	80 057	176 147	D
3333	Commercial & service industry machinery mfg ..	-	30	16	2 564	114 186	1 354	2 797	47 458	359 256	243 862	605 595	15 567
33331	Commercial & service industry machinery mfg	-	30	16	2 564	114 186	1 354	2 797	47 458	359 256	243 862	605 595	15 567
333319	Other commercial & service industry machinery mfg	-	16	8	1 767	78 710	1 014	2 136	35 259	282 550	187 003	469 104	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	21	10	1 625	69 673	845	1 547	24 450	107 034	165 193	272 514	5 737
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	21	10	1 625	69 673	845	1 547	24 450	107 034	165 193	272 514	5 737
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	8	5	1 273	56 335	640	1 121	18 583	82 861	144 313	226 168	4 766
3335	Metalworking machinery mfg	1	83	23	1 516	64 951	1 043	2 173	38 060	124 268	50 106	176 511	13 064
33351	Metalworking machinery mfg	1	83	23	1 516	64 951	1 043	2 173	38 060	124 268	50 106	176 511	13 064
333511	Industrial mold mfg ...	1	32	10	537	24 017	434	894	17 065	38 664	12 937	53 407	5 087

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HENNEPIN COUNTY, MN—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	1	70	25	4 879	202 661	2 471	5 571	81 789	608 285	472 938	1 086 075	39 030
33391	Pump & compressor mfg	—	10	4	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	—	5	2	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	2	14	6	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	1	46	15	2 671	109 929	1 451	3 172	45 492	308 965	215 655	527 506	21 759
333993	Packaging machinery mfg	—	13	6	751	32 391	340	758	12 813	53 385	70 236	128 569	5 324
333999	All other miscellaneous general-purpose machinery mfg	—	21	3	1 020	37 793	533	1 135	16 794	111 261	57 703	171 598	11 781
334	Computer & electronic product mfg	—	211	111	26 335	1 152 522	13 135	27 742	417 948	2 608 641	1 695 040	4 283 600	493 443
3341	Computer & peripheral equipment mfg	—	33	17	5 817	268 048	2 540	6 343	68 042	567 178	592 320	1 160 109	249 077
33411	Computer & peripheral equipment mfg	—	33	17	5 817	268 048	2 540	6 343	68 042	567 178	592 320	1 160 109	249 077
334111	Electronic computer mfg	1	8	4	577	27 706	68	920	2 654	55 574	25 928	80 975	D
334112	Computer storage device mfg	—	5	4	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	—	17	8	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	20	13	2 562	126 779	851	1 409	27 196	345 549	203 275	548 506	D
33421	Telephone apparatus mfg	—	10	7	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	10	7	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	6	4	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	6	4	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	65	33	6 243	232 876	3 890	7 782	113 803	657 100	335 484	979 606	131 458
33441	Semiconductor & other electronic component mfg	—	65	33	6 243	232 876	3 890	7 782	113 803	657 100	335 484	979 606	131 458
334412	Bare printed circuit board mfg	—	25	14	2 769	83 419	2 175	4 117	53 427	220 867	107 396	326 577	16 999
334413	Semiconductor & related device mfg	—	9	6	1 808	84 209	968	2 226	40 071	247 560	98 180	335 079	102 697
334418	Printed circuit assembly (electronic assembly) mfg	—	5	4	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	—	16	3	521	17 076	332	584	9 857	37 924	36 885	75 273	D
3345	Navigational, measuring, medical, & control instruments mfg	—	75	38	11 073	503 142	5 458	11 422	197 216	983 297	527 526	1 503 228	84 912
33451	Navigational, measuring, medical, & control instruments mfg	—	75	38	11 073	503 142	5 458	11 422	197 216	983 297	527 526	1 503 228	84 912
334510	Electromedical & electrotherapeutic apparatus mfg	—	29	17	h	D	D	D	D	D	D	D	20 306
334511	Search, detection, navigation, & guidance instrument mfg	—	3	2	g	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	—	5	1	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	—	12	7	1 088	55 104	318	688	14 889	64 570	51 140	115 328	D
334519	Other measuring & controlling device mfg	—	11	4	1 386	69 769	914	1 746	40 969	182 546	93 800	275 093	11 866
3346	Mfg & reproducing magnetic & optical media	4	14	8	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	4	14	8	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)				
HENNEPIN COUNTY, MN—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	1	61	31	3 424	111 730	1 808	3 516	49 348	243 483	244 782	507 633	25 220
3353	Electrical equipment mfg ..	1	40	19	2 258	71 819	1 040	1 906	29 737	132 017	159 843	315 154	18 062
33531	Electrical equipment mfg	1	40	19	2 258	71 819	1 040	1 906	29 737	132 017	159 843	315 154	18 062
335314	Relay & industrial control mfg	—	24	12	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	3	18	11	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	7	12	7	501	17 094	344	757	8 767	39 174	35 411	73 500	2 082
336	Transportation equipment mfg	1	39	17	1 605	61 745	1 065	2 466	35 665	161 857	141 816	295 887	6 953
3363	Motor vehicle parts mfg ...	1	19	10	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	146	37	2 825	89 012	2 055	3 935	52 095	161 314	195 583	359 280	17 992
3371	Household & institutional furniture & kitchen cabinet mfg	1	87	12	1 132	32 255	871	1 637	21 134	58 525	47 057	105 667	D
33712	Household & institutional furniture mfg	1	40	8	765	22 884	596	1 104	14 666	41 324	34 839	76 258	1 762
337127	Institutional furniture mfg	—	7	5	564	18 881	420	809	11 641	34 135	28 815	63 033	D
3372	Office furniture (including fixtures) mfg	1	47	21	1 181	42 982	804	1 657	22 899	86 209	63 759	151 557	2 799
33721	Office furniture (including fixtures) mfg	1	47	21	1 181	42 982	804	1 657	22 899	86 209	63 759	151 557	2 799
337215	Showcase, partition, shelving, & locker mfg	1	23	11	693	26 919	459	949	12 956	59 445	44 511	105 508	1 661
3379	Other furniture related product mfg	—	12	4	512	13 775	380	641	8 062	16 580	84 767	102 056	D
339	Miscellaneous mfg	1	236	62	11 335	417 080	6 377	13 059	168 411	1 053 920	476 890	1 531 984	67 799
3391	Medical equipment & supplies mfg	1	105	32	7 699	317 557	4 366	9 083	121 696	804 194	330 469	1 140 269	56 855
33911	Medical equipment & supplies mfg	1	105	32	7 699	317 557	4 366	9 083	121 696	804 194	330 469	1 140 269	56 855
339112	Surgical & medical instrument mfg	1	39	17	6 299	266 561	3 557	7 710	102 903	658 888	271 040	934 612	48 105
339113	Surgical appliance & supplies mfg	1	15	5	590	26 300	281	388	6 668	90 871	27 184	118 890	7 403
3399	Other miscellaneous mfg ..	1	131	30	3 636	99 523	2 011	3 976	46 715	249 726	146 421	391 715	10 944
33995	Sign mfg	1	47	12	1 015	30 525	671	1 326	14 600	64 457	47 653	110 198	2 664
339950	Sign mfg	1	47	12	1 015	30 525	671	1 326	14 600	64 457	47 653	110 198	2 664
33999	All other miscellaneous mfg	—	42	13	1 990	48 563	1 020	2 025	25 154	118 807	57 212	175 442	5 844
339991	Gasket, packing, & sealing device mfg ...	1	6	5	884	25 865	540	1 102	15 410	51 544	17 815	69 882	2 854
339999	All other miscellaneous mfg	1	28	4	f	D	D	D	D	D	D	D	D
HUBBARD COUNTY, MN													
31-33	Manufacturing	—	32	10	940	19 643	770	1 304	13 161	73 677	92 436	166 144	7 370
ISANTI COUNTY, MN													
31-33	Manufacturing	3	59	17	1 330	35 647	953	1 795	22 150	81 337	71 083	153 470	9 146
332	Fabricated metal product mfg	2	20	6	595	19 538	421	920	12 435	41 926	38 111	80 500	5 126
ITASCA COUNTY, MN													
31-33	Manufacturing	—	58	13	2 432	92 028	1 958	3 901	70 361	249 256	283 395	534 347	43 190
321	Wood product mfg	1	11	6	560	18 417	465	1 007	14 451	23 313	59 747	82 197	D
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JACKSON COUNTY, MN													
31-33	Manufacturing	-	18	4	f	D	D	D	D	D	D	D	8 749
333	Machinery mfg	-	5	3	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	4	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	4	2	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
KANABEC COUNTY, MN													
31-33	Manufacturing	1	17	5	803	19 365	637	759	7 708	49 860	48 060	96 744	7 694
326	Plastics & rubber products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
KANDIYOHI COUNTY, MN													
31-33	Manufacturing	-	66	22	3 265	83 993	2 666	5 706	59 977	243 691	387 842	605 532	36 232
311	Food mfg	-	8	5	1 934	46 113	1 794	4 038	40 461	145 156	258 547	383 567	D
3116	Meat product mfg	-	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	5	530	17 537	340	653	8 521	44 507	43 179	81 096	3 052
KOOCHICHING COUNTY, MN													
31-33	Manufacturing	-	11	4	g	D	D	D	D	D	D	D	D
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
LAKE COUNTY, MN													
31-33	Manufacturing	-	12	5	507	18 614	396	874	12 418	45 368	38 963	84 405	8 178
LE SUEUR COUNTY, MN													
31-33	Manufacturing	1	51	20	2 751	79 532	2 229	4 588	53 678	382 717	348 812	728 879	15 405
311	Food mfg	3	9	4	670	18 605	577	1 279	15 710	69 103	206 827	275 922	4 580
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
33152	Nonferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
LYON COUNTY, MN													
31-33	Manufacturing	-	28	11	1 833	40 476	1 487	3 037	31 477	133 250	315 570	455 992	15 457
311	Food mfg	-	7	4	996	24 439	892	1 948	20 623	76 736	259 455	343 578	13 160

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MCLEOD COUNTY, MN													
31-33	Manufacturing	-	67	31	9 080	291 028	7 268	15 122	206 452	1 005 380	659 803	1 670 471	94 194
311	Food mfg	-	9	4	668	13 893	558	1 185	10 814	46 468	115 338	158 909	3 214
322	Paper mfg	-	2	2	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	4	4 687	143 180	3 824	7 719	103 359	293 512	60 757	355 213	D
3341	Computer & peripheral equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	1	1	h	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
MARTIN COUNTY, MN													
31-33	Manufacturing	-	44	13	2 111	61 555	1 422	2 783	33 593	167 919	125 279	294 146	19 030
333	Machinery mfg	-	7	4	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	3	f	D	D	D	D	D	D	D	D
MEEKER COUNTY, MN													
31-33	Manufacturing	-	58	26	1 740	41 122	1 286	2 386	23 789	119 677	239 152	356 765	24 969
334	Computer & electronic product mfg	2	6	4	507	12 197	315	623	5 120	22 476	16 791	38 840	D
MILLE LACS COUNTY, MN													
31-33	Manufacturing	1	38	8	1 029	24 441	883	1 603	18 388	61 202	97 500	158 026	2 521
MORRISON COUNTY, MN													
31-33	Manufacturing	1	44	12	1 883	47 283	1 595	3 081	34 732	104 126	151 510	256 341	6 716
336	Transportation equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building	-	2	2	f	D	D	D	D	D	D	D	D
MOWER COUNTY, MN													
31-33	Manufacturing	-	37	11	h	D	D	D	D	D	D	D	25 261
311	Food mfg	-	5	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
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D
NICOLLET COUNTY, MN													
31-33	Manufacturing	-	34	18	3 748	79 936	2 555	5 200	46 945	265 238	602 182	868 223	17 466
323	Printing & related support activities	-	6	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	6	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	6	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	5	4	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)				
NOBLES COUNTY, MN													
31-33	Manufacturing	-	24	8	2 690	62 883	2 157	4 359	44 388	236 522	588 191	823 776	9 791
311	Food mfg	-	5	3	g	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
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D
OLMSTED COUNTY, MN													
31-33	Manufacturing	-	77	30	10 477	482 127	4 949	10 067	126 924	1 040 943	2 133 306	3 085 395	105 658
311	Food mfg	-	12	6	1 496	42 365	1 288	2 687	35 448	114 526	478 607	591 104	5 360
3115	Dairy product mfg	-	4	4	825	26 682	686	1 405	22 336	89 067	365 560	451 884	4 174
31151	Dairy product (except frozen) mfg	-	3	3	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	11	6	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	11	6	f	D	D	D	D	D	D	D	D
32311	Printing	-	11	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	9	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	11	5	1 376	44 746	1 136	2 298	30 610	110 104	96 502	207 427	3 667
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
332116	Metal stamping	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	6	3	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	1	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	1	1	i	D	D	D	D	D	D	D	D
OTTER TAIL COUNTY, MN													
31-33	Manufacturing	-	91	30	3 732	82 134	2 875	5 389	55 312	260 698	402 782	661 725	9 361
311	Food mfg	-	22	11	2 179	44 381	1 688	3 329	31 723	169 463	326 024	495 762	4 828
3116	Meat product mfg	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
PENNINGTON COUNTY, MN													
31-33	Manufacturing	-	16	8	2 047	50 899	1 366	2 164	25 258	270 140	334 482	594 747	12 385
336	Transportation equipment mfg	-	1	1	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
336999	All other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
PIPESTONE COUNTY, MN													
31-33	Manufacturing	-	15	3	652	16 626	534	1 011	12 990	45 091	52 977	96 885	922
POLK COUNTY, MN													
31-33	Manufacturing	-	40	12	1 350	36 299	1 107	2 064	26 606	130 024	168 604	300 278	4 252
311	Food mfg	-	7	4	614	21 003	526	1 137	16 306	98 443	143 530	242 359	D
POPE COUNTY, MN													
31-33	Manufacturing	-	29	7	529	13 290	429	841	9 177	34 865	49 334	84 553	1 940

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RAMSEY COUNTY, MN													
31-33	Manufacturing	-	765	294	41 550	1 581 587	25 442	49 107	784 644	5 009 459	4 227 460	9 294 638	336 391
311	Food mfg	-	47	21	2 400	60 832	1 168	1 851	26 377	185 281	207 103	393 009	9 642
3118	Bakeries & tortilla mfg	-	24	11	1 305	24 977	564	812	11 012	83 712	48 976	132 412	D
31181	Bread & bakery product mfg	-	21	9	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	8	6	995	19 124	382	512	7 747	66 911	38 459	105 341	3 100
3119	Other food mfg	-	7	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	4	4	4	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	4	4	4	f	D	D	D	D	D	D	D	D
31212	Breweries	3	3	3	f	D	D	D	D	D	D	D	D
312120	Breweries	3	3	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	16	8	533	12 229	407	688	7 153	25 453	48 300	74 085	1 505
322	Paper mfg	-	17	14	1 651	56 343	1 294	2 788	38 176	145 121	180 841	331 685	30 994
3222	Converted paper product mfg	-	16	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	10	9	1 112	40 335	871	1 856	28 075	93 072	143 650	238 821	D
322211	Corrugated & solid fiber box mfg	-	6	6	f	D	D	D	D	D	D	D	9 864
323	Printing & related support activities	-	170	48	8 103	271 491	4 816	9 617	146 886	621 088	397 028	1 022 402	37 188
3231	Printing & related support activities	-	170	48	8 103	271 491	4 816	9 617	146 886	621 088	397 028	1 022 402	37 188
32311	Printing	1	148	42	6 782	221 260	4 047	7 779	120 388	496 579	372 818	872 870	30 038
323110	Commercial lithographic printing ..	-	75	23	4 063	144 075	2 590	5 030	84 027	282 123	259 255	544 399	22 135
323113	Commercial screen printing	-	19	6	896	18 682	434	751	9 088	60 672	23 338	83 759	3 706
323116	Manifold business form printing	-	7	4	865	24 500	457	875	12 207	93 470	39 749	134 433	1 177
32312	Support activities for printing	-	22	6	1 321	50 231	769	1 838	26 498	124 509	24 210	149 532	7 150
323122	Prepress services	-	14	5	g	D	D	D	D	D	D	D	7 026
325	Chemical mfg	-	24	10	875	39 309	553	1 102	21 869	196 335	131 471	326 631	7 373
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	4	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	24	12	1 377	50 461	895	1 905	22 658	99 439	74 673	176 736	15 795
3261	Plastics product mfg	-	21	12	g	D	D	D	D	D	D	D	15 709
32619	Other plastics product mfg	-	13	8	1 144	43 169	713	1 586	18 066	84 276	55 874	141 942	13 731
326199	All other plastics product mfg	-	13	8	1 144	43 169	713	1 586	18 066	84 276	55 874	141 942	13 731
327	Nonmetallic mineral product mfg	-	15	6	h	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	3	2	h	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ..	-	1	1	h	D	D	D	D	D	D	D	D
327910	Abrasive product mfg ..	-	1	1	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	12	10	1 313	58 427	953	1 991	39 609	101 267	171 207	275 734	24 399
3315	Foundries	-	11	9	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	7	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	122	58	5 360	215 673	3 370	6 891	117 964	441 643	480 979	966 486	31 161
3323	Architectural & structural metals mfg	-	30	20	1 491	46 423	959	1 849	24 528	97 898	81 270	177 212	5 781
33232	Ornamental & architectural metal products mfg	-	24	16	1 370	42 026	885	1 715	22 271	86 489	69 026	153 739	D
332321	Metal window & door mfg	-	4	3	699	18 080	410	741	7 881	37 172	40 997	76 076	1 817
332322	Sheet metal work mfg ..	1	15	10	547	19 781	397	810	12 169	39 654	20 042	59 765	3 386
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	30	9	716	32 861	562	1 094	21 229	76 914	35 201	118 151	6 332
33271	Machine shops	-	25	6	571	27 806	440	835	17 414	67 585	31 302	104 916	5 944
332710	Machine shops	-	25	6	571	27 806	440	835	17 414	67 585	31 302	104 916	5 944
3328	Coating, engraving, heat treating, & allied activities ..	1	25	14	776	22 607	609	1 286	15 218	54 556	19 666	74 000	5 945
33281	Coating, engraving, heat treating, & allied activities	1	25	14	776	22 607	609	1 286	15 218	54 556	19 666	74 000	5 945
3329	Other fabricated metal product mfg	-	19	5	1 757	89 243	758	1 668	37 780	149 678	249 993	437 441	6 057
33299	All other fabricated metal product mfg	-	14	2	g	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	-	1	1	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)				
	RAMSEY COUNTY, MN												
	—Con.												
31-33	Manufacturing—												
	Con.												
333	Machinery mfg	1	60	27	2 920	115 257	1 853	3 560	55 472	275 402	245 779	511 784	16 023
3339	Other general-purpose machinery mfg	—	19	9	1 246	49 659	735	1 438	22 520	124 872	161 601	279 684	6 276
33391	Pump & compressor mfg	—	3	2	f	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	2	10	5	502	20 150	298	548	9 759	38 774	36 189	74 965	D
334	Computer & electronic product mfg	—	60	26	6 573	307 952	3 029	5 991	85 165	933 141	451 010	1 403 473	43 966
3341	Computer & peripheral equipment mfg	1	6	1	923	52 382	153	317	6 389	S	S	50 780	D
33411	Computer & peripheral equipment mfg	1	6	1	923	52 382	153	317	6 389	S	S	50 780	D
334111	Electronic computer mfg	—	2	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	4	3	612	21 267	271	596	5 993	74 812	41 796	113 240	D
33429	Other communications equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	20	11	2 232	76 943	1 575	2 934	40 825	146 070	193 189	336 023	21 186
33441	Semiconductor & other electronic component mfg	—	20	11	2 232	76 943	1 575	2 934	40 825	146 070	193 189	336 023	21 186
334412	Bare printed circuit board mfg	—	10	4	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	—	5	5	938	33 612	561	993	12 718	85 986	129 835	212 831	D
3345	Navigational, measuring, medical, & control instruments mfg	—	24	8	2 486	148 788	772	1 688	26 200	754 036	133 053	881 685	6 356
33451	Navigational, measuring, medical, & control instruments mfg	—	24	8	2 486	148 788	772	1 688	26 200	754 036	133 053	881 685	6 356
334510	Electromedical & electrotherapeutic apparatus mfg	—	4	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	29	3	560	14 766	453	975	10 387	30 632	31 886	62 602	2 807
339	Miscellaneous mfg	—	103	28	3 378	110 853	1 959	3 378	43 051	265 783	99 560	367 726	8 943
3391	Medical equipment & supplies mfg	—	60	17	2 034	79 601	1 031	2 094	26 735	206 677	55 315	265 455	5 882
33911	Medical equipment & supplies mfg	—	60	17	2 034	79 601	1 031	2 094	26 735	206 677	55 315	265 455	5 882
339112	Surgical & medical instrument mfg	—	13	6	1 051	47 039	358	684	9 021	121 962	26 874	149 387	3 297
3399	Other miscellaneous mfg	—	43	11	1 344	31 252	928	1 284	16 316	59 106	44 245	102 271	3 061
33995	Sign mfg	—	18	8	623	20 757	404	714	9 994	36 645	29 147	64 884	1 677
339950	Sign mfg	—	18	8	623	20 757	404	714	9 994	36 645	29 147	64 884	1 677
33999	All other miscellaneous mfg	1	9	2	603	7 945	436	425	4 772	14 530	9 331	23 808	1 090
339999	All other miscellaneous mfg	1	6	2	596	7 763	430	412	4 641	14 131	9 118	23 183	1 072
	REDWOOD COUNTY, MN												
31-33	Manufacturing	—	21	7	1 250	34 863	926	1 980	20 083	75 163	90 505	165 899	4 927
334	Computer & electronic product mfg	—	2	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	2	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	2	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

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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)				
RENVILLE COUNTY, MN													
31-33	Manufacturing	1	34	11	884	21 520	648	1 249	13 305	64 379	92 035	155 749	8 196
RICE COUNTY, MN													
31-33	Manufacturing	-	86	30	4 838	161 292	3 518	7 469	112 020	450 083	499 484	954 941	46 570
311	Food mfg.....	-	11	7	1 556	57 307	1 169	2 571	42 145	232 004	240 914	490 567	17 936
3112	Grain & oilseed milling	-	3	2	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg.	-	2	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg. .	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	11	5	642	20 103	544	1 076	16 424	47 415	75 022	113 492	3 941
333	Machinery mfg.....	-	12	5	762	25 342	438	1 067	16 657	72 488	79 886	148 829	6 264
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	6	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
ROSEAU COUNTY, MN													
31-33	Manufacturing	-	18	5	i	D	D	D	D	D	D	D	9 514
321	Wood product mfg.....	-	4	2	h	D	D	D	D	D	D	D	D
3219	Other wood product mfg...	-	3	2	h	D	D	D	D	D	D	D	D
32191	Millwork.....	-	2	1	h	D	D	D	D	D	D	D	D
321911	Wood window & door mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	4	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
ST. LOUIS COUNTY, MN													
31-33	Manufacturing	1	228	57	5 446	155 830	3 851	7 377	95 958	462 154	413 036	879 373	142 396
311	Food mfg.....	1	20	5	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	37	9	684	22 892	490	996	13 290	43 346	40 557	84 249	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

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)				
SCOTT COUNTY, MN													
31-33	Manufacturing	1	148	34	5 039	180 804	3 626	7 348	116 611	442 581	558 727	989 491	34 913
323	Printing & related support activities	-	7	4	585	20 618	466	863	14 550	41 940	45 133	87 081	957
3231	Printing & related support activities	-	7	4	585	20 618	466	863	14 550	41 940	45 133	87 081	957
32311	Printing	-	7	4	585	20 618	466	863	14 550	41 940	45 133	87 081	957
323110	Commercial lithographic printing	-	5	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	13	4	687	29 869	407	814	15 923	65 688	45 994	110 705	5 377
332	Fabricated metal product mfg	-	39	4	982	34 081	848	1 703	28 318	57 970	132 906	189 449	10 278
3324	Boiler, tank, & shipping container mfg	-	2	2	f	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	3	13	5	955	38 465	654	1 385	21 189	70 230	53 560	122 654	4 437
SHERBURNE COUNTY, MN													
31-33	Manufacturing	-	96	31	3 278	103 183	2 574	4 428	67 594	272 211	189 852	463 200	19 595
332	Fabricated metal product mfg	-	37	12	1 098	40 658	811	1 536	25 419	85 841	46 444	130 935	4 838
337	Furniture & related product mfg	-	4	1	f	D	D	D	D	D	D	D	824
3371	Household & institutional furniture & kitchen cabinet mfg	-	2	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	2	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg	-	2	1	f	D	D	D	D	D	D	D	D
SIBLEY COUNTY, MN													
31-33	Manufacturing	-	25	10	1 054	28 695	834	1 641	16 690	129 154	222 577	352 131	2 810
311	Food mfg	-	5	4	711	22 268	548	1 147	11 791	102 493	193 382	297 268	1 809
3119	Other food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31199	All other food mfg	-	1	1	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg	-	1	1	f	D	D	D	D	D	D	D	D
STEARNS COUNTY, MN													
31-33	Manufacturing	-	219	66	12 609	369 140	10 193	19 164	266 782	919 213	1 288 669	2 216 638	72 285
311	Food mfg	-	23	8	1 998	44 655	1 818	3 457	37 951	145 184	480 669	627 044	D
3116	Meat product mfg	-	6	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	6	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg	2	10	5	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	2	10	5	f	D	D	D	D	D	D	D	D
32191	Millwork	2	6	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	3	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
323	Printing & related support activities	-	29	9	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	29	9	g	D	D	D	D	D	D	D	D
32311	Printing	-	26	9	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	-	14	5	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	20	4	1 088	31 289	999	1 869	27 718	97 991	25 843	128 445	D
3279	Other nonmetallic mineral product mfg	-	8	4	g	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg	-	8	4	g	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg	-	8	4	g	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)				
STEARNS COUNTY, MN—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	32	9	1 452	46 039	977	2 189	27 125	90 238	64 984	156 726	D
3329	Other fabricated metal product mfg	-	3	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	2	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	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
335222	Household refrigerator & home freezer mfg..	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	20	6	877	19 553	704	1 220	14 962	48 026	35 256	79 488	7 012
3391	Medical equipment & supplies mfg	-	10	6	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	10	6	f	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	-	5	4	f	D	D	D	D	D	D	D	D
STEELE COUNTY, MN													
31-33	Manufacturing	-	67	30	6 292	191 701	4 612	10 148	122 251	517 407	494 730	1 006 942	38 089
327	Nonmetallic mineral product mfg	-	5	3	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	g	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	5	1 762	56 785	1 165	2 430	30 648	147 917	174 924	317 105	13 912
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
332212	Hand & edge tool mfg .	-	1	1	f	D	D	D	D	D	D	D	D
3325	Hardware mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	9	8	1 286	45 373	802	1 761	26 110	101 914	117 444	218 934	4 515
3331	Agriculture, construction, & mining machinery mfg....	-	4	4	f	D	D	D	D	D	D	D	1 683
33312	Construction machinery mfg	-	3	3	506	15 981	361	843	11 749	42 423	77 175	119 812	D
333120	Construction machinery mfg	-	3	3	506	15 981	361	843	11 749	42 423	77 175	119 812	D
3339	Other general-purpose machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
SWIFT COUNTY, MN													
31-33	Manufacturing	-	13	5	829	19 280	667	1 348	15 208	21 774	32 390	56 532	3 551
333	Machinery mfg	-	5	3	548	14 644	418	885	11 762	11 984	23 626	38 098	D
3331	Agriculture, construction, & mining machinery mfg....	-	4	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	4	2	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
TODD COUNTY, MN													
31-33	Manufacturing	-	47	11	1 519	46 378	1 221	2 531	35 063	104 483	173 423	278 200	10 715
323	Printing & related support activities.....	-	3	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	3	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing..	-	1	1	f	D	D	D	D	D	D	D	D

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]

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WABASHA COUNTY, MN													
31-33	Manufacturing	-	39	13	1 934	51 298	1 474	3 128	39 574	161 072	207 727	368 535	15 219
336	Transportation equipment mfg	-	2	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
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
WADENA COUNTY, MN													
31-33	Manufacturing	-	21	8	784	19 816	623	1 261	12 911	43 010	31 957	74 399	1 712
WASECA COUNTY, MN													
31-33	Manufacturing	1	29	12	3 298	108 575	2 455	4 862	61 531	265 862	196 075	467 128	19 406
323	Printing & related support activities.....	-	8	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	8	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	8	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	5	3	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	4	3	f	D	D	D	D	D	D	D	5 021
WASHINGTON COUNTY, MN													
31-33	Manufacturing	-	210	53	9 456	436 048	6 653	14 090	271 435	1 062 659	1 743 404	2 795 049	103 677
321	Wood product mfg	-	13	4	h	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	10	4	h	D	D	D	D	D	D	D	D
32191	Millwork	-	4	1	h	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	h	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	16	4	587	18 046	451	914	11 054	69 553	25 363	90 480	D
3231	Printing & related support activities.....	-	16	4	587	18 046	451	914	11 054	69 553	25 363	90 480	D
32311	Printing	-	15	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	8	4	1 370	74 242	773	1 689	35 701	213 640	157 318	370 516	37 239
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	-	1	1	f	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	34	16	1 010	36 293	747	1 444	21 446	82 728	72 670	153 825	6 031
333	Machinery mfg	-	29	9	1 456	57 619	952	1 994	32 818	142 852	101 588	236 850	12 574
3335	Metalworking machinery mfg	-	17	7	974	39 217	678	1 452	24 839	96 746	29 066	120 750	D
33351	Metalworking machinery mfg	-	17	7	974	39 217	678	1 452	24 839	96 746	29 066	120 750	D
333514	Special die & tool, die set, jig, & fixture mfg .	-	3	2	f	D	D	D	D	D	D	D	D
WATONWAN COUNTY, MN													
31-33	Manufacturing	4	21	7	1 102	22 684	823	1 692	15 242	62 188	78 469	139 256	4 427
311	Food mfg.....	3	6	4	628	14 022	434	1 024	9 108	42 382	56 075	97 350	2 596

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
WINONA COUNTY, MN													
31-33	Manufacturing	1	116	51	7 115	196 089	4 942	9 941	111 595	489 411	589 540	1 071 891	32 219
311	Food mfg	4	13	5	837	21 050	542	1 062	12 103	80 386	140 126	220 781	6 238
315	Apparel mfg	-	3	2	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	2	2	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	-	2	2	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	9	8	539	16 317	451	878	11 082	34 177	15 195	49 164	2 157
3315	Foundries	-	8	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	4	591	18 606	434	946	11 117	42 455	30 019	71 105	D
333	Machinery mfg	2	19	6	534	15 099	332	556	7 836	28 111	30 831	60 994	1 883
334	Computer & electronic product mfg	-	5	3	1 618	44 436	1 039	2 159	23 949	105 916	208 770	309 016	9 232
3344	Semiconductor & other electronic component mfg	-	3	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	6	4	554	17 454	313	610	7 397	45 763	12 263	57 778	D
WRIGHT COUNTY, MN													
31-33	Manufacturing	1	179	53	4 315	127 399	3 051	5 978	69 634	301 090	283 857	583 563	20 093
311	Food mfg	-	12	8	901	28 175	504	974	10 545	45 804	101 839	147 782	3 066
332	Fabricated metal product mfg	-	48	15	1 029	36 590	766	1 666	22 023	81 708	58 600	138 586	7 313

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	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)	
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
ALBERT LEA, MN													
31-33	Manufacturing	-	46	20	2 502	71 143	1 969	3 895	49 156	186 785	322 715	501 929	13 431
311	Food mfg	-	6	5	g	D	D	D	D	D	D	D	D
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
337	Furniture & related product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	1	1	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)				
ALEXANDRIA, MN													
31-33	Manufacturing	-	32	17	2 345	62 912	1 885	3 316	43 637	249 758	157 682	406 554	10 837
327	Nonmetallic mineral product mfg	-	2	2	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
333	Machinery mfg	-	4	3	f	D	D	D	D	D	D	D	2 915
3339	Other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
ANOKA, MN													
31-33	Manufacturing	2	51	23	6 068	220 294	4 258	8 666	131 153	634 854	442 364	1 081 632	36 507
332	Fabricated metal product mfg	5	13	8	2 815	89 083	2 094	4 348	58 392	196 169	159 721	357 217	13 898
3321	Forging & stamping	9	2	2	g	D	D	D	D	D	D	D	D
33211	Forging & stamping	9	2	2	g	D	D	D	D	D	D	D	D
332116	Metal stamping	9	2	2	g	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
33299	All other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332992	Small arms ammunition mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	4	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	1	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	1	1	g	D	D	D	D	D	D	D	D
ARDEN HILLS, MN													
31-33	Manufacturing	-	26	15	3 766	191 253	1 518	2 936	45 413	836 881	229 134	1 060 146	20 690
334	Computer & electronic product mfg	-	4	4	g	D	D	D	D	D	D	D	D
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
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	g	D	D	D	D	D	D	D	D
334510	Electromedical & electrotherapeutic apparatus mfg	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	3	2	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
339112	Surgical & medical instrument 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)				
AUSTIN, MN													
31-33	Manufacturing	-	20	8	h	D	D	D	D	D	D	D	D
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
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D
BAYPORT, MN													
31-33	Manufacturing	-	3	2	h	D	D	D	D	D	D	D	D
321	Wood product mfg	-	1	1	h	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	1	1	h	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	h	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	h	D	D	D	D	D	D	D	D
BEMIDJI, MN													
31-33	Manufacturing	2	21	7	793	20 710	625	1 074	15 230	34 085	60 328	94 984	5 472
BENSON, MN													
31-33	Manufacturing	-	7	4	775	18 271	633	1 286	14 623	19 282	26 992	48 694	3 496
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	2	2	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
BLAINE, MN *													
31-33	Manufacturing	1	134	28	3 147	106 242	2 321	4 945	71 933	240 778	122 818	368 290	18 139
326	Plastics & rubber products mfg	-	10	5	752	24 389	535	1 184	15 242	70 324	25 531	95 957	6 155
332	Fabricated metal product mfg	-	56	8	1 266	42 865	976	2 259	31 767	90 163	51 642	146 180	5 656
3321	Forging & stamping	-	4	2	f	D	D	D	D	D	D	D	2 503
33211	Forging & stamping	-	4	2	f	D	D	D	D	D	D	D	2 503
332116	Metal stamping	-	4	2	f	D	D	D	D	D	D	D	2 503
333	Machinery mfg	2	25	8	534	22 466	393	817	15 014	47 741	27 825	75 775	4 096
BLOOMINGTON, MN													
31-33	Manufacturing	-	209	62	10 538	420 770	5 738	11 701	160 153	783 566	885 397	1 655 482	365 528
323	Printing & related support activities	-	38	8	591	21 379	404	826	12 328	45 712	19 682	65 824	6 910
3231	Printing & related support activities	-	38	8	591	21 379	404	826	12 328	45 712	19 682	65 824	6 910
326	Plastics & rubber products mfg	2	14	5	550	17 436	302	623	8 400	44 301	54 533	98 746	2 751
3261	Plastics product mfg	2	12	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	45	17	1 339	47 926	934	1 743	26 287	70 814	73 799	144 583	17 770
3321	Forging & stamping	2	8	4	679	25 488	453	755	11 845	22 473	45 384	67 043	D
33211	Forging & stamping	2	8	4	679	25 488	453	755	11 845	22 473	45 384	67 043	D
332116	Metal stamping	2	7	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	14	7	1 306	61 467	604	1 322	20 886	110 956	167 795	273 552	7 283
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip 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)				
	BLOOMINGTON, MN—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	24	11	5 013	223 558	2 577	5 197	68 392	363 665	473 509	831 150	322 268
3341	Computer & peripheral equipment mfg.....	-	6	3	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	6	3	h	D	D	D	D	D	D	D	D
334112	Computer storage device mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	7	4	1 183	49 273	572	1 120	18 599	180 514	66 016	239 952	D
33441	Semiconductor & other electronic component mfg.....	-	7	4	1 183	49 273	572	1 120	18 599	180 514	66 016	239 952	D
334413	Semiconductor & related device mfg...	-	3	2	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	21	2	628	11 855	161	318	3 989	25 421	19 174	43 600	1 846
3399	Other miscellaneous mfg ..	1	16	2	604	10 469	145	285	3 354	22 101	17 662	38 732	1 637
	BLUE EARTH, MN												
31-33	Manufacturing	-	9	7	795	18 285	624	1 376	12 644	50 541	58 977	118 479	2 501
	BRAINERD, MN												
31-33	Manufacturing	-	40	13	1 562	58 007	1 222	2 334	42 970	158 562	148 556	303 924	6 265
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
	BROOKLYN CENTER, MN												
31-33	Manufacturing	-	44	17	1 723	66 629	1 159	2 431	35 448	147 969	95 538	242 335	12 281
	BROOKLYN PARK, MN												
31-33	Manufacturing	-	109	39	5 406	226 807	2 782	5 640	88 786	416 075	449 014	860 917	44 807
323	Printing & related support activities.....	-	18	7	1 115	40 883	726	1 485	22 811	76 234	62 694	138 340	6 195
3231	Printing & related support activities.....	-	18	7	1 115	40 883	726	1 485	22 811	76 234	62 694	138 340	6 195
32311	Printing.....	-	16	7	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	8	5	948	36 102	590	1 257	19 488	69 629	54 769	123 816	5 580
332	Fabricated metal product mfg.....	1	32	13	1 137	49 185	723	1 441	25 014	97 442	69 594	160 228	6 888
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	20	7	609	26 761	423	877	15 560	54 629	37 134	91 757	4 203
333	Machinery mfg.....	-	8	3	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
334	Computer & electronic product mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus 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)				
BURNSVILLE, MN													
31-33	Manufacturing	1	113	36	4 055	148 146	2 170	4 236	53 165	384 578	340 021	723 631	20 539
312	Beverage & tobacco product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	1	1	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	1	1	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	11	6	1 307	57 120	484	972	15 081	169 979	64 159	234 649	8 253
3345	Navigational, measuring, medical, & control instruments mfg	-	4	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	3	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	11	7	678	21 295	481	947	10 777	49 270	40 705	90 621	2 147
CAMBRIDGE, MN													
31-33	Manufacturing	3	15	9	893	25 437	613	1 198	15 416	60 651	58 045	119 690	7 182
CANNON FALLS, MN													
31-33	Manufacturing	-	17	10	1 523	40 481	1 064	2 154	25 784	91 343	76 230	168 052	5 299
CHANHASSEN, MN *													
31-33	Manufacturing	1	38	20	4 207	154 855	2 622	5 873	82 295	363 390	380 557	745 319	33 641
311	Food mfg	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	1	1	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	1	1	f	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	6	4	3	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	6	4	3	f	D	D	D	D	D	D	D	D
32311	Printing	6	3	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	6	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	7	4	1 481	50 116	769	1 755	24 720	109 588	114 025	222 315	D
3345	Navigational, measuring, medical, & control instruments mfg	-	4	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	3	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	-	3	2	g	D	D	D	D	D	D	D	D
CHASKA, MN													
31-33	Manufacturing	2	66	46	5 954	241 404	3 328	6 502	102 507	629 016	440 038	1 060 240	50 498
326	Plastics & rubber products mfg	-	5	3	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	13	11	540	21 073	417	790	12 557	44 295	26 332	69 972	2 813
333	Machinery mfg	-	11	8	1 445	61 943	568	1 116	16 516	195 475	172 183	360 283	1 881
3332	Industrial machinery mfg	-	6	4	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	5	4	f	D	D	D	D	D	D	D	D
333295	Semiconductor 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)				
31-33	CHASKA, MN—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg.....	-	9	7	1 578	66 429	721	1 304	25 711	107 737	57 350	165 920	2 343
3391	Medical equipment & supplies mfg.....	-	5	4	g	D	D	D	D	D	D	D	2 199
33911	Medical equipment & supplies mfg.....	-	5	4	g	D	D	D	D	D	D	D	2 199
339112	Surgical & medical instrument mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
	CLOQUET, MN												
31-33	Manufacturing....	-	13	4	1 905	85 986	1 560	3 357	68 002	248 697	157 890	401 841	D
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
327	Nonmetallic mineral product mfg.....	-	3	1	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
32799	All other nonmetallic mineral product mfg....	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
	COLD SPRING, MN												
31-33	Manufacturing....	-	19	4	1 600	41 320	1 473	2 611	36 132	119 369	93 793	219 225	5 076
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
327	Nonmetallic mineral product mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg....	-	4	2	f	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
	COLUMBIA HEIGHTS, MN												
31-33	Manufacturing....	1	39	10	613	17 332	470	885	11 485	38 784	28 364	67 281	2 998
	COON RAPIDS, MN												
31-33	Manufacturing....	-	61	23	2 613	102 818	1 970	4 479	64 700	220 496	161 609	379 097	24 334
323	Printing & related support activities.....	1	9	4	504	21 856	358	788	13 013	43 381	36 276	79 116	D
3231	Printing & related support activities.....	1	9	4	504	21 856	358	788	13 013	43 381	36 276	79 116	D
332	Fabricated metal product mfg.....	-	21	10	1 149	43 812	963	2 457	32 340	95 185	52 063	145 407	9 501
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	-	8	4	731	27 372	625	1 659	21 581	62 189	32 452	92 959	7 776
	COTTAGE GROVE, MN												
31-33	Manufacturing....	-	10	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg..	-	1	1	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
325613	Surface active agent mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
	CROOKSTON, MN												
31-33	Manufacturing....	1	11	4	f	D	D	D	D	D	D	D	2 461
	CRYSTAL, MN												
31-33	Manufacturing....	3	30	4	530	16 881	356	708	9 325	40 639	26 089	66 029	2 503

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DETROIT LAKES, MN													
31-33	Manufacturing	-	21	9	961	26 059	670	1 257	17 094	66 944	69 951	137 379	6 924
DULUTH, MN													
31-33	Manufacturing	-	97	25	2 751	88 937	1 937	3 817	56 347	286 310	244 462	534 173	D
311	Food mfg	-	11	3	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	3	3	f	D	D	D	D	D	D	D	D
EAGAN, MN													
31-33	Manufacturing	-	85	36	4 169	169 496	2 762	5 830	101 121	1 114 607	2 176 682	3 294 111	28 707
324	Petroleum & coal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	5	631	21 090	496	923	13 657	39 944	30 628	70 967	2 439
334	Computer & electronic product mfg	-	6	5	f	D	D	D	D	D	D	D	D
EAST GRAND FORKS, MN													
31-33	Manufacturing	-	17	5	612	19 669	494	969	14 947	94 221	113 007	207 413	970
EDEN PRAIRIE, MN													
31-33	Manufacturing	1	146	62	9 873	412 613	4 982	10 138	170 213	917 355	601 231	1 528 643	74 013
311	Food mfg	6	8	2	691	22 574	190	388	5 413	20 369	76 293	96 456	4 905
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
323	Printing & related support activities	-	27	9	1 045	40 116	730	1 441	23 047	77 902	54 266	132 047	5 415
3231	Printing & related support activities	-	27	9	1 045	40 116	730	1 441	23 047	77 902	54 266	132 047	5 415
32311	Printing	-	26	8	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	12	4	573	21 522	394	735	12 198	39 315	18 115	57 337	2 609
333	Machinery mfg	-	13	6	581	27 322	294	584	9 425	59 242	29 096	86 318	4 267
334	Computer & electronic product mfg	-	32	20	5 080	225 226	2 268	4 613	87 812	527 669	290 722	808 402	40 037
3341	Computer & peripheral equipment mfg	1	7	5	974	40 622	246	523	9 887	121 412	90 326	210 947	D
33411	Computer & peripheral equipment mfg	1	7	5	974	40 622	246	523	9 887	121 412	90 326	210 947	D
3345	Navigational, measuring, medical, & control instruments mfg	-	15	10	3 778	172 692	1 827	3 799	74 121	380 426	180 083	551 376	28 873
33451	Navigational, measuring, medical, & control instruments mfg	-	15	10	3 778	172 692	1 827	3 799	74 121	380 426	180 083	551 376	28 873
334510	Electromedical & electrotherapeutic apparatus mfg	-	7	5	1 549	60 126	689	1 567	20 704	165 049	53 865	212 401	5 105
334513	Industrial process control instrument mfg	-	2	2	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	-	3	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	9	6	771	29 380	395	796	10 610	53 597	71 252	149 030	5 385
339	Miscellaneous mfg	-	13	5	623	29 345	332	707	10 617	74 661	16 247	90 800	7 087

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EDINA, MN													
31-33	Manufacturing	1	93	20	3 007	109 369	2 038	4 016	58 950	289 215	189 981	479 433	22 050
333	Machinery mfg	-	9	4	592	25 870	351	646	13 110	68 826	41 451	110 052	D
334	Computer & electronic product mfg	1	10	3	504	16 605	340	705	8 884	60 289	23 716	83 789	3 501
339	Miscellaneous mfg	-	16	2	642	21 131	423	800	10 571	45 270	27 683	73 635	241
3391	Medical equipment & supplies mfg	-	10	1	559	18 531	367	684	8 875	38 496	23 085	62 218	149
33911	Medical equipment & supplies mfg	-	10	1	559	18 531	367	684	8 875	38 496	23 085	62 218	149
339112	Surgical & medical instrument mfg	-	4	1	f	D	D	D	D	D	D	D	68
ELK RIVER, MN													
31-33	Manufacturing	1	45	16	1 188	44 393	889	1 661	26 305	83 965	60 712	144 624	7 334
332	Fabricated metal product mfg	-	19	9	780	27 505	543	1 031	16 017	49 913	33 072	82 292	2 816
FAIRMONT, MN													
31-33	Manufacturing	-	28	10	1 774	52 614	1 173	2 261	27 896	151 114	103 170	255 340	16 145
333	Machinery mfg	-	5	3	511	16 025	299	470	7 100	36 491	28 859	65 081	D
FARIBAULT, MN													
31-33	Manufacturing	-	38	21	2 797	82 617	2 206	4 793	61 046	179 436	263 114	436 822	15 225
311	Food mfg	-	8	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	6	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
FERGUS FALLS, MN													
31-33	Manufacturing	-	42	16	1 323	29 249	791	1 360	15 285	101 735	109 892	211 406	5 017
FRIDLEY, MN													
31-33	Manufacturing	-	159	69	9 797	382 530	6 127	11 146	195 944	866 141	816 524	1 673 726	47 571
332	Fabricated metal product mfg	-	59	25	3 653	141 427	2 094	3 708	63 896	408 135	112 123	521 941	17 204
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	31	11	911	30 382	746	1 482	22 363	72 241	21 764	94 304	5 568
33271	Machine shops	-	23	9	771	25 423	632	1 243	18 457	62 350	17 995	80 783	4 670
332710	Machine shops	-	23	9	771	25 423	632	1 243	18 457	62 350	17 995	80 783	4 670
3329	Other fabricated metal product mfg	-	7	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	7	2	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
333	Machinery mfg	-	27	11	878	33 605	566	1 160	18 201	75 377	61 266	135 781	3 216
334	Computer & electronic product mfg	-	9	7	1 350	40 527	816	1 506	24 002	96 969	50 942	147 214	6 898
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
334419	Other electronic component mfg	-	1	1	f	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
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
335312	Motor & generator mfg	-	1	1	g	D	D	D	D	D	D	D	D
GLENCOE, MN													
31-33	Manufacturing	-	9	7	1 672	35 276	1 535	2 466	30 246	164 957	204 693	369 824	6 684
334	Computer & electronic product 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)				
GOLDEN VALLEY, MN													
31-33	Manufacturing	-	91	37	6 792	247 426	4 181	7 865	124 025	734 806	443 135	1 187 722	39 537
322	Paper mfg	-	5	4	600	16 439	421	851	9 475	49 982	53 978	104 427	2 920
3222	Converted paper product mfg	-	5	4	600	16 439	421	851	9 475	49 982	53 978	104 427	2 920
323	Printing & related support activities	-	17	7	795	22 695	574	1 007	12 777	57 348	35 562	93 096	2 251
3231	Printing & related support activities	-	17	7	795	22 695	574	1 007	12 777	57 348	35 562	93 096	2 251
32311	Printing	-	13	5	668	17 911	475	778	9 673	49 355	33 828	83 285	2 080
323110	Commercial lithographic printing ..	-	6	4	602	15 799	424	681	8 401	44 781	32 392	77 283	1 997
332	Fabricated metal product mfg	-	12	4	540	14 495	337	516	9 037	40 030	24 446	65 119	1 896
333	Machinery mfg	-	9	4	837	38 466	457	992	15 963	173 303	73 753	250 712	2 880
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
333319	Other commercial & service industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	10	6	3 001	122 908	1 792	3 286	62 373	330 203	191 979	527 060	26 161
3345	Navigational, measuring, medical, & control instruments mfg	-	6	4	2 936	121 099	1 753	3 217	61 546	323 827	187 365	516 078	D
33451	Navigational, measuring, medical, & control instruments mfg	-	6	4	2 936	121 099	1 753	3 217	61 546	323 827	187 365	516 078	D
334510	Electromedical & electrotherapeutic apparatus mfg	-	2	2	f	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	-	1	1	g	D	D	D	D	D	D	D	D
GRAND RAPIDS, MN													
31-33	Manufacturing	-	17	3	g	D	D	D	D	D	D	D	D
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
HASTINGS, MN *													
31-33	Manufacturing	1	16	10	1 592	52 630	1 159	2 457	33 310	80 669	168 988	250 072	12 664
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
HIBBING, MN													
31-33	Manufacturing	-	22	11	1 357	32 314	939	1 780	16 995	93 067	85 477	179 668	5 211
334	Computer & electronic product mfg	-	5	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
334418	Printed circuit assembly (electronic assembly) mfg	-	1	1	f	D	D	D	D	D	D	D	D
HOPKINS, MN													
31-33	Manufacturing	1	59	20	2 357	83 945	1 569	3 404	45 520	263 729	146 651	407 795	21 491
334	Computer & electronic product 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)				
HUTCHINSON, MN													
31-33	Manufacturing	-	25	12	6 181	214 480	4 950	10 859	153 741	760 164	311 643	1 080 579	83 683
322	Paper mfg	-	2	2	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	1	1	h	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	1	1	h	D	D	D	D	D	D	D	D
INTERNATIONAL FALLS, MN													
31-33	Manufacturing	-	4	3	g	D	D	D	D	D	D	D	D
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
JACKSON, MN													
31-33	Manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	3	2	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
LAKE CITY, MN *													
31-33	Manufacturing	-	13	6	1 221	37 050	970	2 124	29 534	115 404	114 520	229 713	11 350
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
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
LAKEVILLE, MN													
31-33	Manufacturing	-	63	28	3 186	108 790	2 114	4 496	62 916	285 133	358 609	646 403	26 600
311	Food mfg	-	4	3	974	28 932	650	1 276	15 078	51 222	110 105	163 529	12 257
3113	Sugar & confectionery product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	10	4	538	14 853	417	859	10 374	68 655	54 921	123 148	501
LE SUEUR, MN *													
31-33	Manufacturing	1	10	7	1 448	40 901	1 197	2 438	27 076	284 635	218 472	501 999	9 045
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
33152	Nonferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
LITCHFIELD, MN													
31-33	Manufacturing	-	19	7	801	20 174	558	1 089	10 698	66 128	159 718	224 382	21 566
LITTLE CANADA, MN													
31-33	Manufacturing	3	19	7	619	16 502	530	1 138	12 240	48 172	22 981	72 633	1 724

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LITTLE FALLS, MN													
31-33	Manufacturing	-	22	8	g	D	D	D	D	D	D	D	3 975
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building	-	2	2	f	D	D	D	D	D	D	D	D
LONG PRAIRIE, MN													
31-33	Manufacturing	-	13	4	1 023	31 689	802	1 752	23 506	79 449	159 529	239 145	7 355
323	Printing & related support activities	-	3	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	3	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	1	1	f	D	D	D	D	D	D	D	D
MANKATO, MN *													
31-33	Manufacturing	-	62	32	3 721	116 640	2 577	5 521	70 832	340 281	1 139 147	1 476 411	34 472
311	Food mfg	-	10	7	588	21 521	382	801	11 488	124 308	819 359	945 230	17 040
335	Electrical equipment, appliance, & component mfg	-	3	3	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	2	2	f	D	D	D	D	D	D	D	D
MAPLE GROVE, MN													
31-33	Manufacturing	-	105	34	5 685	227 757	3 831	8 625	118 475	616 158	410 683	1 028 249	45 902
339	Miscellaneous mfg	-	9	3	h	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	4	2	h	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	4	2	h	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg	-	3	2	h	D	D	D	D	D	D	D	D
MAPLEWOOD, MN													
31-33	Manufacturing	1	32	9	712	21 639	453	951	13 394	46 245	64 174	110 242	1 727
MARSHALL, MN													
31-33	Manufacturing	-	19	7	1 282	31 274	1 090	2 298	24 306	100 289	286 308	393 816	14 703
311	Food mfg	-	5	4	f	D	D	D	D	D	D	D	D
MEDINA, MN													
31-33	Manufacturing	-	23	5	781	29 288	509	1 064	14 998	65 912	64 349	130 530	2 692
MENDOTA HEIGHTS, MN													
31-33	Manufacturing	5	26	8	1 136	31 042	778	1 517	18 470	90 366	99 069	189 569	4 057

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MINNEAPOLIS, MN													
31-33	Manufacturing	1	699	239	25 906	951 082	17 446	35 740	512 063	2 106 593	1 821 093	3 953 529	158 044
311	Food mfg	1	56	21	2 098	62 230	1 542	3 124	41 796	230 982	372 015	614 079	22 291
3118	Bakeries & tortilla mfg	1	27	8	621	14 203	431	773	10 183	55 673	24 826	83 799	1 326
322	Paper mfg	-	19	12	1 311	44 674	990	1 772	25 734	92 795	178 410	271 910	3 962
3222	Converted paper product mfg	-	19	12	1 311	44 674	990	1 772	25 734	92 795	178 410	271 910	3 962
32221	Paperboard container mfg	-	11	8	772	22 945	582	881	12 985	55 367	67 514	121 808	1 687
322211	Corrugated & solid fiber box mfg	-	7	5	516	13 771	395	540	7 596	32 237	49 869	81 363	D
323	Printing & related support activities	3	154	47	4 184	165 673	3 031	6 329	102 704	353 956	211 407	564 348	27 805
3231	Printing & related support activities	3	154	47	4 184	165 673	3 031	6 329	102 704	353 956	211 407	564 348	27 805
32311	Printing	3	120	35	3 214	124 589	2 292	4 844	77 037	269 815	193 435	462 199	24 175
323110	Commercial lithographic printing ..	3	59	23	2 344	97 609	1 687	3 663	61 417	209 942	144 686	353 488	20 161
32312	Support activities for printing	1	34	12	970	41 084	739	1 485	25 667	84 141	17 972	102 149	3 630
323122	Prepress services	2	24	9	760	34 867	551	1 087	20 908	72 179	14 974	87 129	3 405
325	Chemical mfg	2	24	9	820	22 670	492	893	12 037	76 884	96 340	177 745	4 040
3256	Soap, cleaning compound, & toilet preparation mfg ..	3	10	5	580	13 376	357	603	7 607	45 071	44 967	90 695	1 379
326	Plastics & rubber products mfg	4	26	11	1 356	40 650	989	2 055	24 713	95 784	78 560	173 275	8 180
3261	Plastics product mfg	5	19	8	1 072	32 280	821	1 740	20 864	78 390	67 405	144 949	7 556
32619	Other plastics product mfg	5	14	5	911	26 612	708	1 528	17 403	64 739	52 006	115 776	7 307
326199	All other plastics product mfg	5	14	5	911	26 612	708	1 528	17 403	64 739	52 006	115 776	7 307
331	Primary metal mfg	-	7	6	963	39 198	768	1 689	24 215	105 943	44 560	149 397	3 675
332	Fabricated metal product mfg	1	113	45	4 505	156 892	3 293	6 990	94 236	287 716	201 746	491 409	21 585
3321	Forging & stamping	-	12	8	786	32 586	529	1 057	15 108	36 944	39 500	79 110	3 744
33211	Forging & stamping	-	12	8	786	32 586	529	1 057	15 108	36 944	39 500	79 110	3 744
332116	Metal stamping	-	10	7	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	18	8	568	17 529	395	884	10 889	61 810	37 310	98 041	3 752
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	47	16	1 201	42 774	948	2 025	29 740	84 507	29 897	114 558	5 093
33271	Machine shops	1	38	10	779	27 215	593	1 185	18 151	56 016	18 381	74 570	3 274
332710	Machine shops	1	38	10	779	27 215	593	1 185	18 151	56 016	18 381	74 570	3 274
3328	Coating, engraving, heat treating, & allied activities ..	5	21	10	1 328	39 821	1 018	2 104	25 110	72 820	52 771	126 314	5 689
33281	Coating, engraving, heat treating, & allied activities	5	21	10	1 328	39 821	1 018	2 104	25 110	72 820	52 771	126 314	5 689
332813	Electroplating, plating, polishing, anodizing, & coloring	5	16	7	1 104	32 429	836	1 742	20 225	57 633	47 292	105 671	5 208
333	Machinery mfg	1	54	23	2 756	117 973	1 564	3 431	54 353	331 948	233 317	574 547	19 785
3339	Other general-purpose machinery mfg	2	20	9	1 786	82 889	901	2 101	34 728	266 963	189 978	466 421	15 254
33391	Pump & compressor mfg	-	5	3	1 000	48 951	557	1 390	23 018	192 041	124 279	318 681	D
333911	Pump & pumping equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	4	10	3	618	27 917	253	536	9 085	61 485	56 403	124 852	D
334	Computer & electronic product mfg	-	35	13	3 246	156 256	1 483	2 888	50 826	183 333	128 420	310 983	27 725
3344	Semiconductor & other electronic component mfg	-	12	3	581	15 578	465	973	10 651	54 117	28 164	82 621	D
33441	Semiconductor & other electronic component mfg	-	12	3	581	15 578	465	973	10 651	54 117	28 164	82 621	D
3345	Navigational, measuring, medical, & control instruments mfg	-	11	5	2 413	132 775	913	1 722	37 750	115 997	85 661	200 488	19 912
33451	Navigational, measuring, medical, & control instruments mfg	-	11	5	2 413	132 775	913	1 722	37 750	115 997	85 661	200 488	19 912
334510	Electromedical & electrotherapeutic apparatus mfg	-	3	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument 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)				
31-33	MINNEAPOLIS, MN— Con. Manufacturing— Con.												
335	Electrical equipment, appliance, & component mfg	2	11	7	587	20 946	431	901	13 247	39 181	21 939	60 403	1 394
337	Furniture & related product mfg	1	56	13	851	22 714	652	1 261	14 130	38 356	39 014	78 588	1 546
339	Miscellaneous mfg	2	66	12	1 692	55 798	1 116	2 093	26 794	151 494	67 544	219 612	7 116
3391	Medical equipment & supplies mfg	4	24	5	882	33 415	570	1 061	15 134	101 420	31 496	133 084	5 290
33911	Medical equipment & supplies mfg	4	24	5	882	33 415	570	1 061	15 134	101 420	31 496	133 084	5 290
339112	Surgical & medical instrument mfg	4	8	3	737	28 754	478	893	12 918	92 966	27 287	120 425	5 055
3399	Other miscellaneous mfg ..	1	42	7	810	22 383	546	1 032	11 660	50 074	36 048	86 528	1 826
33999	All other miscellaneous mfg	-	14	5	577	14 741	426	800	8 769	29 450	19 355	49 215	1 410
	MINNETONKA, MN												
31-33	Manufacturing	-	118	42	7 462	296 852	4 046	8 167	114 087	971 589	493 141	1 457 788	45 398
326	Plastics & rubber products mfg	-	5	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	5	2	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
326113	Unsupported plastics film & sheet (except packaging) mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	10	3	510	22 132	415	937	16 057	86 741	16 347	103 334	4 171
333	Machinery mfg	-	10	3	828	32 901	297	741	9 053	77 859	44 662	123 740	3 816
3339	Other general-purpose machinery mfg	-	5	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	4	1	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	28	16	3 613	153 117	1 772	3 541	50 149	573 326	292 212	860 480	19 920
3341	Computer & peripheral equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	1	5	4	f	D	D	D	D	D	D	D	4 770
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	4	3	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	4	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	11	6	2 053	72 454	1 165	2 122	29 941	209 103	117 912	325 063	13 733
33441	Semiconductor & other electronic component mfg	-	11	6	2 053	72 454	1 165	2 122	29 941	209 103	117 912	325 063	13 733
334412	Bare printed circuit board mfg	-	5	4	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	18	7	809	32 023	398	634	9 397	96 026	40 438	137 036	7 827
3391	Medical equipment & supplies mfg	-	9	4	622	26 253	286	416	6 578	84 382	29 971	115 200	7 258
33911	Medical equipment & supplies mfg	-	9	4	622	26 253	286	416	6 578	84 382	29 971	115 200	7 258
	MONTEVIDEO, MN												
31-33	Manufacturing	-	12	6	1 273	29 772	993	1 693	18 809	53 125	40 656	92 107	D
334	Computer & electronic product mfg	1	3	3	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)				
MONTGOMERY, MN													
31-33	Manufacturing	-	8	2	509	16 346	438	993	11 704	39 748	33 596	73 117	1 661
MONTICELLO, MN													
31-33	Manufacturing	-	24	12	846	30 416	622	1 302	17 804	57 517	74 804	131 075	5 612
MOORHEAD, MN													
31-33	Manufacturing	-	26	8	926	29 053	786	1 657	23 068	44 584	163 252	205 268	D
MORA, MN													
31-33	Manufacturing	1	11	4	740	18 458	592	696	7 063	48 034	45 909	92 773	7 436
326	Plastics & rubber products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
MOUNDS VIEW, MN													
31-33	Manufacturing	-	13	7	902	32 489	507	937	11 685	70 217	89 886	159 165	5 167
NEW BRIGHTON, MN													
31-33	Manufacturing	-	44	23	3 122	139 251	1 598	3 396	62 399	248 281	351 642	643 749	16 853
332	Fabricated metal product mfg	-	12	9	1 786	93 286	771	1 675	41 423	151 736	259 477	453 922	9 750
3329	Other fabricated metal product mfg	-	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	g	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	-	1	1	g	D	D	D	D	D	D	D	D
NEW HOPE, MN													
31-33	Manufacturing	1	87	49	4 261	146 092	2 968	5 997	87 798	315 806	235 123	548 962	20 540
323	Printing & related support activities	-	20	8	711	20 934	465	813	12 841	38 120	23 427	61 755	1 610
3231	Printing & related support activities	-	20	8	711	20 934	465	813	12 841	38 120	23 427	61 755	1 610
32311	Printing	-	18	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	11	782	29 301	634	1 310	21 315	58 345	25 665	82 989	6 384
NEW PRAGUE, MN *													
31-33	Manufacturing	-	12	3	789	28 753	682	1 399	24 315	54 463	144 655	199 849	D
332	Fabricated metal product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	-	1	1	f	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
NEW ULM, MN													
31-33	Manufacturing	-	24	12	2 929	78 947	2 426	4 494	59 472	734 237	627 740	1 359 409	D
311	Food mfg	-	4	3	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	4	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	4	3	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	2	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	2	g	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
334510	Electromedical & electrotherapeutic apparatus 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)				
NORTHFIELD, MN *													
31-33	Manufacturing	-	23	8	1 893	75 448	1 199	2 501	48 967	263 429	229 479	503 876	30 669
311	Food mfg	-	2	1	f	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	2	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	2	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	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
334412	Bare printed circuit board mfg	-	2	2	f	D	D	D	D	D	D	D	D
NORTH MANKATO, MN *													
31-33	Manufacturing	-	18	10	2 909	58 473	2 003	4 081	36 095	211 293	184 672	395 209	14 688
323	Printing & related support activities	-	4	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	4	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	4	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	4	4	g	D	D	D	D	D	D	D	D
NORTH ST. PAUL, MN													
31-33	Manufacturing	-	17	2	699	25 662	384	836	9 769	95 322	41 557	132 503	3 147
OWATONNA, MN													
31-33	Manufacturing	-	48	25	6 072	185 902	4 450	9 876	119 001	505 543	481 258	981 231	37 404
327	Nonmetallic mineral product mfg	-	3	2	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	g	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	4	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
332212	Hand & edge tool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	9	8	1 286	45 373	802	1 761	26 110	101 914	117 444	218 934	4 515
3331	Agriculture, construction, & mining machinery mfg	-	4	4	f	D	D	D	D	D	D	D	1 683
33312	Construction machinery mfg	-	3	3	506	15 981	361	843	11 749	42 423	77 175	119 812	D
333120	Construction machinery mfg	-	3	3	506	15 981	361	843	11 749	42 423	77 175	119 812	D
3339	Other general-purpose machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
PARK RAPIDS, MN													
31-33	Manufacturing	-	18	5	f	D	D	D	D	D	D	D	7 013

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PLYMOUTH, MN													
31-33	Manufacturing	1	207	101	12 651	498 133	7 163	15 674	229 484	1 138 178	962 773	2 096 541	112 596
323	Printing & related support activities.....	2	34	11	1 000	41 747	671	1 556	22 132	82 666	53 567	137 021	9 928
3231	Printing & related support activities.....	2	34	11	1 000	41 747	671	1 556	22 132	82 666	53 567	137 021	9 928
32311	Printing	2	30	9	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	3	12	4	608	24 428	443	1 085	14 207	46 038	27 527	73 607	4 010
325	Chemical mfg	-	6	4	764	33 974	313	539	6 625	81 137	53 509	135 020	7 136
3254	Pharmaceutical & medicine mfg	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	38	16	1 167	42 852	849	1 815	28 624	86 742	74 598	166 938	5 500
333	Machinery mfg	-	30	16	2 354	100 733	1 382	2 967	47 538	282 039	250 515	532 321	15 108
3332	Industrial machinery mfg ..	-	5	4	621	29 180	352	790	13 540	85 159	66 637	152 214	5 107
3333	Commercial & service industry machinery mfg ..	1	5	3	735	31 344	480	1 000	17 041	85 246	56 522	143 419	3 369
33331	Commercial & service industry machinery mfg	1	5	3	735	31 344	480	1 000	17 041	85 246	56 522	143 419	3 369
333319	Other commercial & service industry machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	4	567	23 187	259	556	7 776	74 665	103 792	176 976	4 878
334	Computer & electronic product mfg	1	29	20	2 425	107 233	1 265	3 639	49 181	195 484	136 536	329 810	27 548
3344	Semiconductor & other electronic component mfg	1	8	6	1 199	52 494	777	1 858	33 261	91 112	67 626	154 396	D
33441	Semiconductor & other electronic component mfg	1	8	6	1 199	52 494	777	1 858	33 261	91 112	67 626	154 396	D
334413	Semiconductor & related device mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	12	8	703	31 400	264	531	7 237	37 187	30 156	65 906	D
33451	Navigational, measuring, medical, & control instruments mfg	-	12	8	703	31 400	264	531	7 237	37 187	30 156	65 906	D
334510	Electromedical & electrotherapeutic apparatus mfg	-	7	6	648	29 015	227	467	6 070	31 465	24 827	54 860	4 285
335	Electrical equipment, appliance, & component mfg	-	12	8	1 311	30 327	546	858	12 210	69 742	107 033	174 006	D
3353	Electrical equipment mfg ..	-	11	7	g	D	D	D	D	D	D	D	13 008
33531	Electrical equipment mfg	-	11	7	g	D	D	D	D	D	D	D	13 008
335314	Relay & industrial control mfg	-	8	6	1 099	25 656	388	600	9 839	55 353	91 016	143 350	12 852
337	Furniture & related product mfg	-	9	6	640	20 363	478	859	12 658	26 344	85 195	112 184	D
339	Miscellaneous mfg	2	23	11	1 857	75 328	921	1 845	25 147	187 385	75 336	262 965	10 714
3391	Medical equipment & supplies mfg	2	16	8	1 490	65 699	748	1 472	18 702	166 813	58 734	226 689	10 041
33911	Medical equipment & supplies mfg	2	16	8	1 490	65 699	748	1 472	18 702	166 813	58 734	226 689	10 041
339112	Surgical & medical instrument mfg	3	10	4	1 082	52 057	473	955	12 748	132 151	41 750	174 957	9 094
PRINCETON, MN *													
31-33	Manufacturing	-	25	7	1 607	38 207	1 317	2 162	28 105	131 749	114 192	248 841	7 544
337	Furniture & related product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	2	1	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	2	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
RAMSEY, MN													
31-33	Manufacturing	-	40	7	1 005	34 709	789	1 653	22 742	92 530	46 373	137 707	4 163

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)				
RED WING, MN													
31-33	Manufacturing	-	32	17	3 048	102 017	2 333	4 965	64 282	268 571	293 232	555 895	12 610
316	Leather & allied product mfg .	-	5	4	g	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	2	g	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	2	g	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg .	-	2	2	g	D	D	D	D	D	D	D	D
REDWOOD FALLS, MN													
31-33	Manufacturing	-	7	4	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
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
ROCHESTER, MN													
31-33	Manufacturing	-	64	27	i	D	D	D	D	D	D	D	D
311	Food mfg	-	10	6	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	4	4	825	26 682	686	1 405	22 336	89 067	365 560	451 884	4 174
31151	Dairy product (except frozen) mfg	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	5	g	D	D	D	D	D	D	D	D
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
332116	Metal stamping	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	6	3	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	1	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	1	1	i	D	D	D	D	D	D	D	D
ROSEAU, MN													
31-33	Manufacturing	-	6	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
ROSEVILLE, MN													
31-33	Manufacturing	1	88	42	5 238	196 006	2 816	5 311	81 057	248 830	330 306	604 904	35 577
311	Food mfg	-	6	3	1 129	27 796	315	476	8 209	83 697	61 156	144 729	3 907
3118	Bakeries & tortilla mfg	-	3	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	3	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	23	10	724	29 940	538	976	15 203	60 588	46 662	106 440	4 571
3231	Printing & related support activities.....	3	23	10	724	29 940	538	976	15 203	60 588	46 662	106 440	4 571
32311	Printing	3	20	9	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	4	12	6	503	17 136	387	629	9 955	40 579	22 485	62 662	3 091

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ROSEVILLE, MN—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	6	3	1 687	79 837	766	1 523	24 417	S	S	120 145	18 569
3341	Computer & peripheral equipment mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
ST. CLOUD, MN *													
31-33	Manufacturing	-	75	34	7 189	193 979	5 689	10 608	137 502	499 285	489 073	981 719	38 543
311	Food mfg.....	-	9	4	1 503	35 772	1 131	2 362	23 482	90 110	100 953	191 305	2 800
3116	Meat product mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	4	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	19	7	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	19	7	g	D	D	D	D	D	D	D	D
32311	Printing	-	17	7	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	7	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	9	3	530	14 509	414	847	9 977	24 436	19 526	45 173	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
335222	Household refrigerator & home freezer mfg..	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	12	5	821	18 173	659	1 156	14 263	45 067	33 069	74 122	6 916
3391	Medical equipment & supplies mfg.....	-	8	5	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	8	5	f	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
ST. LOUIS PARK, MN													
31-33	Manufacturing	-	113	37	4 241	159 931	2 594	5 927	74 438	388 369	321 208	707 524	28 252
311	Food mfg.....	-	8	3	952	43 606	344	677	11 152	147 106	144 711	290 902	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
332	Fabricated metal product mfg.....	2	24	11	564	22 576	425	939	13 374	42 215	16 686	58 745	2 414
334	Computer & electronic product mfg.....	-	7	4	728	25 222	485	1 654	13 397	56 315	27 779	84 003	3 132
339	Miscellaneous mfg.....	-	13	4	533	16 307	350	711	8 265	36 875	11 008	47 189	1 885

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			Total	With 20 em- ploy- ees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ST. PAUL, MN													
31-33	Manufacturing	-	375	134	20 215	737 545	13 968	26 540	440 472	2 873 925	2 658 651	5 536 555	210 787
311	Food mfg	1	29	11	762	17 622	523	791	9 981	53 932	37 788	92 824	3 997
3118	Bakeries & tortilla mfg	1	14	8	500	10 781	328	493	6 192	32 897	18 333	50 931	3 465
312	Beverage & tobacco product mfg	4	4	4	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	4	4	4	f	D	D	D	D	D	D	D	D
31212	Breweries	3	3	3	f	D	D	D	D	D	D	D	D
312120	Breweries	3	3	3	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	12	10	1 108	36 915	879	1 873	24 683	97 263	97 845	201 049	21 288
3222	Converted paper product mfg	-	11	9	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	5	5	569	20 907	456	941	14 582	45 214	60 654	108 185	D
323	Printing & related support activities	-	94	23	4 775	173 046	3 009	6 299	99 865	350 552	255 064	609 531	25 932
3231	Printing & related support activities	-	94	23	4 775	173 046	3 009	6 299	99 865	350 552	255 064	609 531	25 932
32311	Printing	-	81	20	3 659	131 550	2 389	4 768	78 933	242 850	235 032	480 890	D
323110	Commercial lithographic printing ..	-	47	12	2 848	105 821	1 894	3 752	64 886	192 502	203 547	399 545	17 365
32312	Support activities for printing	-	13	3	1 116	41 496	620	1 531	20 932	107 702	20 032	128 641	D
323122	Prepress services	-	8	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	13	3	641	29 166	427	825	16 991	162 458	102 650	265 956	4 773
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	4	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	12	5	h	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	2	2	h	D	D	D	D	D	D	D	D
32791	Abrasive product mfg	-	1	1	h	D	D	D	D	D	D	D	D
327910	Abrasive product mfg ..	-	1	1	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	8	6	858	38 020	591	1 200	25 400	67 826	136 602	207 105	18 022
332	Fabricated metal product mfg	-	52	29	2 349	80 656	1 714	3 480	50 308	204 190	172 270	377 729	14 850
3323	Architectural & structural metals mfg	-	11	9	768	23 269	586	1 137	13 528	53 206	48 675	100 189	3 299
33232	Ornamental & architectural metal products mfg	-	9	8	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities ..	-	15	8	540	15 352	409	878	10 137	40 009	15 334	55 063	4 641
33281	Coating, engraving, heat treating, & allied activities	-	15	8	540	15 352	409	878	10 137	40 009	15 334	55 063	4 641
333	Machinery mfg	1	21	7	904	34 215	713	1 422	19 546	84 379	45 064	129 127	4 919
334	Computer & electronic product mfg	-	18	7	764	31 022	308	540	7 601	84 171	67 998	151 611	4 475
336	Transportation equipment mfg	-	4	3	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	51	12	1 404	33 913	872	1 233	14 775	62 025	38 653	100 946	4 126
3399	Other miscellaneous mfg ..	-	21	7	941	19 187	615	758	8 473	33 411	29 207	61 887	1 749
33999	All other miscellaneous mfg	-	4	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	2	1	f	D	D	D	D	D	D	D	D
ST. PETER, MN													
31-33	Manufacturing	-	7	3	559	14 930	413	881	7 512	31 158	61 501	93 424	1 321

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SARTELL, MN *													
31-33	Manufacturing	-	3	2	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
332	Fabricated metal product mfg	-	1	1	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
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
SAUK RAPIDS, MN													
31-33	Manufacturing	-	18	12	1 582	38 449	1 155	2 182	20 707	108 963	62 777	169 436	3 198
339	Miscellaneous mfg	-	5	4	716	16 383	544	1 181	9 700	47 678	26 388	73 535	1 868
3391	Medical equipment & supplies mfg	-	3	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	3	3	f	D	D	D	D	D	D	D	D
SAVAGE, MN													
31-33	Manufacturing	-	31	6	1 142	47 635	639	1 363	21 093	73 359	96 692	166 928	5 869
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
SHAKOPEE, MN													
31-33	Manufacturing	2	45	19	2 492	89 753	1 889	3 856	63 100	286 137	344 648	622 619	17 699
323	Printing & related support activities	-	5	4	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	5	4	f	D	D	D	D	D	D	D	D
32311	Printing	-	5	4	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	4	4	f	D	D	D	D	D	D	D	D
SHOREVIEW, MN													
31-33	Manufacturing	-	35	9	1 870	71 834	929	1 794	29 146	189 973	80 070	269 115	13 603
323	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	818
3231	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	818
32311	Printing	-	6	3	f	D	D	D	D	D	D	D	818
SLEEPY EYE, MN													
31-33	Manufacturing	5	10	3	929	23 964	693	1 155	13 572	80 497	48 740	129 503	D
323	Printing & related support activities	9	4	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	9	4	1	f	D	D	D	D	D	D	D	D
32311	Printing	9	4	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	9	3	1	f	D	D	D	D	D	D	D	D
SOUTH ST. PAUL, MN													
31-33	Manufacturing	-	28	9	1 043	33 729	734	1 422	20 590	100 966	162 020	263 343	7 760
STILLWATER, MN													
31-33	Manufacturing	1	33	7	1 143	41 011	766	1 382	22 180	110 632	47 940	153 556	8 360
THIEF RIVER FALLS, MN													
31-33	Manufacturing	-	16	8	2 047	50 899	1 366	2 164	25 258	270 140	334 482	594 747	12 385
336	Transportation equipment mfg	-	1	1	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
336999	All other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D

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VADNAIS HEIGHTS, MN													
31-33	Manufacturing	-	33	16	1 216	41 977	870	1 680	25 202	78 073	57 638	136 198	9 857
WACONIA, MN													
31-33	Manufacturing	-	16	5	818	24 141	653	1 281	16 517	49 780	55 555	112 088	1 860
WASECA, MN													
31-33	Manufacturing	1	25	12	3 257	107 572	2 426	4 821	61 019	263 046	188 648	456 634	19 338
323	Printing & related support activities.....	-	8	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	8	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	8	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	5	3	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	4	3	f	D	D	D	D	D	D	D	5 021
WEST ST. PAUL, MN													
31-33	Manufacturing	-	22	13	792	28 656	538	1 122	16 933	67 097	53 389	121 096	5 003
WHITE BEAR, MN													
31-33	Manufacturing	-	14	6	579	19 795	374	813	11 156	42 575	45 499	88 473	3 463
WHITE BEAR LAKE, MN *													
31-33	Manufacturing	1	47	18	2 509	80 177	1 448	2 817	40 628	222 682	166 309	387 751	13 622
323	Printing & related support activities.....	-	9	3	730	13 948	279	382	5 183	51 045	16 342	67 406	2 850
3231	Printing & related support activities.....	-	9	3	730	13 948	279	382	5 183	51 045	16 342	67 406	2 850
32311	Printing	-	7	2	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	12	7	1 041	38 745	668	1 375	20 805	106 414	38 763	143 887	5 155
3335	Metalworking machinery mfg	-	5	1	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	-	5	1	f	D	D	D	D	D	D	D	D
333514	Special die & tool, die set, jig, & fixture mfg .	-	3	1	f	D	D	D	D	D	D	D	D
WILLMAR, MN													
31-33	Manufacturing	-	32	14	2 446	56 069	2 094	4 471	42 653	142 260	245 114	382 796	9 088
311	Food mfg	-	5	4	g	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
311615	Poultry processing	-	2	2	g	D	D	D	D	D	D	D	D
WINDOM, MN													
31-33	Manufacturing	-	9	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	2	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

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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]

NAICS code	Geographic area and industry	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)
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WINONA, MN													
31-33	Manufacturing	1	83	41	5 992	170 653	4 104	8 426	96 261	425 999	501 977	921 492	27 892
311	Food mfg.....	5	8	4	722	17 738	461	904	10 333	67 370	112 654	180 158	D
332	Fabricated metal product mfg.....	-	11	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	4	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	6	4	554	17 454	313	610	7 397	45 763	12 263	57 778	D
WOODBURY, MN													
31-33	Manufacturing	-	17	9	1 062	39 436	662	1 361	20 232	96 502	160 811	253 365	10 312
WORTHINGTON, MN													
31-33	Manufacturing	-	17	7	2 644	61 613	2 123	4 288	43 626	233 396	586 321	818 813	D
311	Food mfg.....	-	5	3	g	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
311611	Animal (except poultry) slaughtering.....	-	1	1	g	D	D	D	D	D	D	D	D
WYOMING, MN													
31-33	Manufacturing	1	19	10	517	15 243	393	771	9 847	28 607	25 228	55 322	1 361

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
MINNESOTA		MINNESOTA—Con.	
Companies ¹	7 505	Quantity of electricity purchased for heat and power	14 717 129
All establishments	8 091	Quantity of electricity generated less sold for heat and power	665 727
Establishments with 1 to 19 employees	5 363	Total value of shipments	\$1,000.. 76 244 894
Establishments with 20 to 99 employees	1 875	Value of resales	\$1,000.. 2 983 688
Establishments with 100 employees or more	853	Value added	\$1,000.. 36 629 931
All employees	382 530	Total inventories, beginning of year	\$1,000.. 8 000 605
Total compensation ²	\$1,000.. 16 177 422	Finished goods inventories, beginning of year	\$1,000.. 2 976 912
Annual payroll	\$1,000.. 13 126 112	Work-in-process inventories, beginning of year	\$1,000.. 1 913 147
Total fringe benefits	\$1,000.. 3 051 310	Materials and supplies inventories, beginning of year	\$1,000.. 3 110 546
Production workers, average for year	260 158	Total inventories, end of year	\$1,000.. 8 152 202
Production workers on March 12	255 139	Finished goods inventories, end of year	\$1,000.. 3 063 396
Production workers on May 12	258 632	Work-in-process inventories, end of year	\$1,000.. 1 928 113
Production workers on August 12	265 527	Materials and supplies inventories, end of year	\$1,000.. 3 160 693
Production workers on November 12	261 334	Gross book value of total assets at beginning of year	\$1,000.. 26 538 807
Production-worker hours	1,000.. 519 172	Total capital expenditures (new and used)	\$1,000.. 3 171 968
Production-worker wages	\$1,000.. 7 250 068	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 419 325
Total cost of materials	\$1,000.. 39 696 664	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 2 752 643
Cost of materials, parts, containers, etc., consumed	\$1,000.. 35 523 760	Total retirements ²	\$1,000.. 963 249
Cost of resales	\$1,000.. 2 198 732	Gross book value of total assets at end of year	\$1,000.. 28 747 526
Cost of fuels	\$1,000.. 382 644	Total depreciation during year ²	\$1,000.. 1 957 616
Cost of purchased electricity	\$1,000.. 612 424	Total rental payments ²	\$1,000.. 982 756
Cost of contract work	\$1,000.. 979 104	Buildings and other structures rental payments ²	\$1,000.. 349 313
		Machinery and equipment rental payments ²	\$1,000.. 633 443

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 323110 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 323111 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 323112 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 323113 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 323114 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 323115 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 323116 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 323117 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 semifinished 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 semifinished 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 skillets) or stamped without further fabrication).

332211 Cutlery and Flatware (Except Precious) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

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 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.

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

MINNESOTA

Blaine is in Anoka and Ramsey Counties.

Chanhassen is in Carver and Hennepin Counties.

Dayton is in Hennepin and Wright Counties.

Granite Falls is in Chippewa and Yellow Medicine Counties.

Hastings is in Dakota and Washington Counties.

Lake City is in Goodhue and Wabasha Counties.

Le Sueur is in Le Sueur and Sibley Counties; it annexed into Sibley County in October 1990, but this change was not submitted to the Census Bureau until June 1997.

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

New Prague is in Le Sueur and Scott Counties.

Northfield is in Dakota and Rice Counties.

North Mankato is in Blue Earth and Nicollet Counties.

Oak Grove was incorporated in December 1993.

Princeton is in Mille Lacs and Sherburne Counties.

Rockford is in Hennepin and Wright Counties.

St. Anthony is in Hennepin and Ramsey Counties.

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

Sartell is in Benton and Stearns Counties.

Spring Lake Park is in Anoka and Ramsey Counties.

Staples is in Todd and Wadena Counties.

Wadena is in Otter Tail and Wadena Counties.

White Bear Lake is in Ramsey and Washington Counties.

Appendix E. Metropolitan Areas

MINNESOTA

Duluth—Superior, MN—WI MSA

St. Louis County, MN

Douglas County, WI

Fargo—Moorhead, ND—MN MSA

Clay County, MN

Cass County, ND

Grand Forks, ND—MN MSA

Polk County, MN

Grand Forks County, ND

La Crosse, WI—MN MSA

Houston County, MN

La Crosse 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

Washington County, MN

Wright County, MN

Pierce County, WI

St. Croix County, WI

Rochester, MN MSA

Olmsted County, MN

St. Cloud, MN MSA

Benton County, MN

Stearns County, MN

