

Missouri

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1997 Economic Census

Manufacturing

Geographic Area Series



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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)				
MISSOURI													
31-33	Manufacturing	-	7 497	2 498	371 448	11 647 050	270 297	531 283	7 197 340	43 186 072	47 579 227	93 115 478	2 655 646
311	Food mfg.....	-	496	191	39 886	963 998	30 851	63 961	683 409	5 351 629	7 776 474	13 106 778	290 675
3111	Animal food mfg.....	-	62	25	2 250	67 740	1 537	3 073	38 787	488 881	860 333	1 355 009	33 032
31111	Animal food mfg.....	-	62	25	2 250	67 740	1 537	3 073	38 787	488 881	860 333	1 355 009	33 032
311111	Dog & cat food mfg...	-	10	7	946	30 808	737	1 602	20 723	199 028	320 382	522 385	16 399
311119	Other animal food mfg.....	-	52	18	1 304	36 932	800	1 471	18 064	289 853	539 951	832 624	16 633
3112	Grain & oilseed milling....	-	27	22	2 789	96 758	2 347	5 471	73 244	611 968	1 766 861	2 382 246	55 361
31121	Flour milling & malt mfg..	-	11	8	1 165	49 375	929	2 213	37 853	311 994	595 347	907 399	25 251
311211	Flour milling.....	-	10	8	g	D	D	D	D	D	D	D	25 251
31122	Starch & vegetable fats & oils mfg.....	-	13	11	f	D	D	D	D	D	D	D	D
311221	Wet corn milling.....	-	1	1	c	D	D	D	D	D	D	D	D
311222	Soybean processing....	-	4	3	c	D	D	D	D	D	D	D	D
311223	Other oilseed processing.....	-	1	1	c	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending.....	1	7	6	335	13 257	284	686	8 524	69 501	495 756	567 680	10 569
31123	Breakfast cereal mfg....	-	3	3	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg..	-	3	3	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	40	11	1 425	35 566	1 130	2 067	22 403	181 568	112 976	293 489	6 731
31133	Confectionery mfg from purchased chocolate...	-	22	8	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	-	22	8	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	17	3	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg....	-	17	3	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	-	36	12	2 217	49 085	1 956	3 063	39 313	388 581	269 637	658 497	15 577
31141	Frozen food mfg.....	-	17	7	1 311	25 087	1 168	1 488	19 817	204 287	106 173	310 456	7 015
311411	Frozen fruit, juice, & vegetable mfg.....	-	3	1	c	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	14	6	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	19	5	906	23 998	788	1 575	19 496	184 294	163 464	348 041	8 562
311421	Fruit & vegetable canning.....	1	17	4	e	D	D	D	D	D	D	D	D
311422	Specialty canning.....	-	2	1	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	34	20	4 620	142 354	3 779	8 776	111 135	714 106	1 704 179	2 418 863	29 178
31151	Dairy product (except frozen) mfg.....	-	25	18	4 149	129 561	3 340	7 855	99 631	644 711	1 655 564	2 296 122	27 790
311511	Fluid milk mfg.....	-	9	6	998	32 771	608	1 494	18 966	71 638	275 635	347 567	4 063
311513	Cheese mfg.....	-	10	7	2 678	83 947	2 379	5 560	69 886	511 279	1 299 918	1 794 140	19 734
311514	Dry, condensed, & evaporated dairy product mfg.....	1	6	5	473	12 843	353	801	10 779	61 794	80 011	154 415	3 993
31152	Ice cream & frozen dessert mfg.....	-	9	2	471	12 793	439	921	11 504	69 395	48 615	122 741	1 388
311520	Ice cream & frozen dessert mfg.....	-	9	2	471	12 793	439	921	11 504	69 395	48 615	122 741	1 388
3116	Meat product mfg.....	-	103	36	16 460	303 252	13 956	28 920	247 213	1 485 214	1 897 825	3 372 213	82 156
31161	Animal slaughtering & processing.....	-	103	36	16 460	303 252	13 956	28 920	247 213	1 485 214	1 897 825	3 372 213	82 156
311611	Animal (except poultry) slaughtering.....	-	52	5	2 079	40 612	1 828	3 732	34 063	80 073	530 107	609 554	D
311612	Meat processed from carcasses.....	1	23	11	2 014	49 569	1 784	3 958	36 502	322 104	313 159	635 818	10 724
311613	Rendering & meat byproduct processing.....	-	4	1	152	3 680	135	254	2 874	88 522	50 876	138 465	D
311615	Poultry processing....	-	24	19	12 215	209 391	10 209	20 976	173 774	994 515	1 003 683	1 988 376	62 330
3118	Bakeries & tortilla mfg.....	1	133	38	6 400	164 199	3 555	7 394	84 160	524 239	445 343	966 975	33 574
31181	Bread & bakery product mfg.....	-	117	26	4 016	101 727	1 954	3 715	47 310	313 442	117 243	430 841	10 310
311811	Retail bakeries.....	5	77	8	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries..	-	38	16	3 223	90 628	1 475	3 008	40 893	293 291	97 577	390 936	9 337
311813	Frozen cakes, pies, & other pastries mfg....	-	2	2	c	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	1	16	12	2 384	62 472	1 601	3 679	36 850	210 797	328 100	536 134	23 264
311821	Cookie & cracker mfg..	-	5	4	627	14 301	328	638	7 681	31 217	76 436	107 609	D
311822	Flour mixes & dough mfg from purchased flour.....	2	6	5	986	26 736	743	1 695	17 008	73 872	110 084	184 999	18 573
311823	Dry pasta mfg.....	-	5	3	771	21 435	530	1 346	12 161	105 708	141 580	243 526	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MISSOURI—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3119	Other food mfg	2	61	27	3 725	105 044	2 591	5 197	67 154	957 072	719 320	1 659 486	35 066
31191	Snack food mfg	—	10	5	1 475	28 761	921	1 895	17 992	152 348	67 407	220 637	10 102
311919	Other snack food mfg	—	9	4	g	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	—	7	4	460	20 642	317	639	12 679	251 705	346 957	584 976	10 039
311920	Coffee & tea mfg	—	7	4	460	20 642	317	639	12 679	251 705	346 957	584 976	10 039
31193	Flavoring syrup & concentrate mfg	3	5	2	220	7 297	117	252	3 828	30 112	24 584	55 475	1 007
311930	Flavoring syrup & concentrate mfg	3	5	2	220	7 297	117	252	3 828	30 112	24 584	55 475	1 007
31194	Seasoning & dressing mfg	4	18	6	773	29 361	575	1 098	19 847	428 576	205 478	629 274	7 572
311941	Mayonnaise, dressing, & other prepared sauce mfg	5	9	2	e	D	D	D	D	D	D	D	D
311942	Spice & extract mfg	—	9	4	e	D	D	D	D	D	D	D	D
31199	All other food mfg	—	21	10	797	18 983	661	1 313	12 808	94 331	74 894	169 124	6 346
311999	All other miscellaneous food mfg	—	18	8	712	17 427	598	1 235	11 840	88 795	70 633	159 299	6 170
312	Beverage & tobacco product mfg	—	48	17	3 898	194 588	2 605	5 313	124 482	1 290 444	925 066	2 213 419	169 406
3121	Beverage mfg	—	47	17	h	D	D	D	D	D	D	D	169 406
31211	Soft drink & ice mfg	1	26	10	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	1	12	9	g	D	D	D	D	D	D	D	D
312112	Bottled water mfg	—	1	1	c	D	D	D	D	D	D	D	D
31212	Breweries	—	5	2	g	D	D	D	D	D	D	D	D
312120	Breweries	—	5	2	g	D	D	D	D	D	D	D	D
31213	Wineries	7	14	3	191	3 991	56	76	984	9 736	6 564	15 827	D
312130	Wineries	7	14	3	191	3 991	56	76	984	9 736	6 564	15 827	D
31214	Distilleries	7	2	2	c	D	D	D	D	D	D	D	D
312140	Distilleries	7	2	2	c	D	D	D	D	D	D	D	D
313	Textile mills	5	36	11	661	17 511	513	999	11 012	43 796	53 390	96 910	3 128
3132	Fabric mills	1	9	4	c	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	5	26	7	485	14 106	370	739	8 614	36 194	41 659	77 071	2 535
31331	Textile & fabric finishing mills	7	21	4	405	10 421	329	644	7 369	24 180	26 473	50 750	D
313311	Broadwoven fabric finishing mills	7	20	4	e	D	D	D	D	D	D	D	D
314	Textile product mills	1	150	38	3 285	60 379	2 730	5 266	43 532	188 053	158 271	351 448	6 970
3141	Textile furnishings mills	1	66	12	1 043	15 519	822	1 535	11 094	70 095	56 260	133 364	1 577
31412	Curtain & linen mills	1	65	12	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills	1	49	4	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills	1	16	8	677	10 154	540	1 018	7 648	57 435	43 315	106 340	987
3149	Other textile product mills	1	84	26	2 242	44 860	1 908	3 731	32 438	117 958	102 011	218 084	5 393
31491	Textile bag & canvas mills	—	40	13	1 199	23 924	1 045	2 088	17 798	74 833	63 493	135 458	3 072
314911	Textile bag mills	—	11	5	623	12 840	558	1 313	10 403	49 387	41 298	87 820	2 629
314912	Canvas & related product mills	—	29	8	576	11 084	487	775	7 395	25 446	22 195	47 638	443
31499	All other textile product mills	3	44	13	1 043	20 936	863	1 643	14 640	43 125	38 518	82 626	2 321
314999	All other miscellaneous textile product mills	3	44	13	1 043	20 936	863	1 643	14 640	43 125	38 518	82 626	2 321
315	Apparel mfg	1	199	108	12 824	189 557	10 955	18 992	143 839	419 252	298 256	700 100	10 109
3152	Cut & sew apparel mfg	1	113	65	8 514	128 778	7 462	12 895	102 025	266 969	210 748	465 742	7 559
31521	Cut & sew apparel contractors	3	40	8	846	11 436	782	1 085	8 912	17 794	1 807	19 580	649
315211	Men's & boys' cut & sew apparel contractors	2	8	5	548	7 533	506	596	5 852	11 740	870	12 585	182
315212	Women's, girls', & infants' cut & sew apparel contractors	6	32	3	298	3 903	276	489	3 060	6 054	937	6 995	467
31522	Men's & boys' cut & sew apparel mfg	1	49	43	5 728	84 387	5 002	8 929	67 533	172 045	133 554	295 289	4 873
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	5	4	1 096	19 381	926	1 613	15 084	55 271	25 988	69 665	292
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	1	6	5	316	4 088	300	494	3 630	9 021	3 725	13 069	106
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	13	13	2 119	27 253	1 968	3 618	23 949	44 802	44 021	88 348	2 475
315225	Men's & boys' cut & sew work clothing mfg	—	9	7	954	13 751	752	1 307	10 881	22 514	22 198	45 917	353
315228	Men's & boys' cut & sew other outerwear mfg	5	16	14	1 243	19 914	1 056	1 897	13 989	40 437	37 622	78 290	1 647

Table 1. Industry Statistics for the State: 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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg—Con.												
31523	Women's & girls' cut & sew apparel mfg	—	17	12	1 840	31 509	1 593	2 728	24 455	74 653	73 942	146 948	1 987
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	1	5	2	158	2 723	130	248	2 235	12 859	6 661	19 395	D
315232	Women's & girls' cut & sew blouse & shirt mfg	—	2	2	e	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	—	8	7	g	D	D	D	D	D	D	D	1 670
31529	Other cut & sew apparel mfg	1	7	2	100	1 446	85	153	1 125	2 477	1 445	3 925	50
3159	Apparel accessories & other apparel mfg	—	80	41	4 236	59 734	3 430	5 978	40 920	149 871	84 452	228 828	2 406
31599	Apparel accessories & other apparel mfg	—	80	41	4 236	59 734	3 430	5 978	40 920	149 871	84 452	228 828	2 406
315991	Hat, cap, & millinery mfg	—	38	29	3 475	46 071	2 787	4 850	31 681	121 765	55 254	171 441	1 591
315992	Glove & mitten mfg	3	6	5	c	D	D	D	D	D	D	D	D
315993	Men's & boys' neckwear mfg	—	1	1	c	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	2	35	6	426	6 398	361	622	4 305	14 872	14 986	30 239	D
316	Leather & allied product mfg	—	64	34	4 000	73 874	3 334	6 337	50 081	137 104	176 215	314 144	7 554
3161	Leather & hide tanning & finishing	—	8	4	494	13 635	399	812	10 355	31 820	22 646	54 604	D
31611	Leather & hide tanning & finishing	—	8	4	494	13 635	399	812	10 355	31 820	22 646	54 604	D
316110	Leather & hide tanning & finishing	—	8	4	494	13 635	399	812	10 355	31 820	22 646	54 604	D
3162	Footwear mfg	—	18	15	2 508	43 466	2 110	3 925	28 465	72 702	122 181	195 328	1 749
31621	Footwear mfg	—	18	15	2 508	43 466	2 110	3 925	28 465	72 702	122 181	195 328	1 749
316211	Rubber & plastics footwear mfg	—	3	3	370	5 346	303	515	3 909	14 647	13 771	29 184	D
316213	Men's footwear (except athletic) mfg	—	5	5	g	D	D	D	D	D	D	D	420
316214	Women's footwear (except athletic) mfg	—	4	3	496	6 856	399	679	5 029	13 571	33 292	48 109	D
316219	Other footwear mfg	—	6	4	f	D	D	D	D	D	D	D	151
3169	Other leather & allied product mfg	1	38	15	998	16 773	825	1 600	11 261	32 582	31 388	64 212	D
31699	Other leather & allied product mfg	1	38	15	998	16 773	825	1 600	11 261	32 582	31 388	64 212	D
316991	Luggage mfg	2	8	4	c	D	D	D	D	D	D	D	764
316993	Personal leather good (except women's handbag & purse) mfg	2	9	5	470	7 780	419	803	5 328	14 442	13 827	28 333	D
316999	All other leather good mfg	1	20	6	309	5 543	247	505	3 654	11 284	10 250	21 877	216
321	Wood product mfg	2	586	124	9 741	196 245	7 994	14 285	138 750	421 784	610 283	1 030 082	26 139
3211	Sawmills & wood preservation	4	248	29	2 205	40 775	1 924	3 022	31 532	107 439	214 597	322 223	11 511
32111	Sawmills & wood preservation	4	248	29	2 205	40 775	1 924	3 022	31 532	107 439	214 597	322 223	11 511
321113	Sawmills	5	232	26	2 010	36 189	1 764	2 728	28 298	93 095	148 512	241 356	9 973
321114	Wood preservation	1	16	3	195	4 586	160	294	3 234	14 344	66 085	80 867	1 538
3212	Veneer, plywood, & engineered wood product mfg	2	30	13	829	20 779	634	1 249	12 953	43 601	54 092	97 556	2 022
32121	Veneer, plywood, & engineered wood product mfg	2	30	13	829	20 779	634	1 249	12 953	43 601	54 092	97 556	2 022
321211	Hardwood veneer & plywood mfg	—	1	1	c	D	D	D	D	D	D	D	D
321214	Truss mfg	1	23	10	561	14 979	399	781	8 573	31 525	40 299	71 749	1 311
321219	Reconstituted wood product mfg	3	6	2	c	D	D	D	D	D	D	D	D
3219	Other wood product mfg	1	308	82	6 707	134 691	5 436	10 014	94 265	270 744	341 594	610 303	12 606
32191	Millwork	1	113	26	2 710	57 928	2 287	4 266	45 566	123 625	166 150	288 499	5 534
321911	Wood window & door mfg	2	22	4	384	8 985	275	505	5 377	16 189	25 597	41 325	1 252
321912	Cut stock, resawing lumber, & planing	2	65	14	989	18 673	815	1 472	14 140	38 961	41 100	79 279	2 562
321918	Other millwork (including flooring)	—	26	8	1 337	30 270	1 197	2 289	26 049	68 475	99 453	167 895	1 720
32192	Wood container & pallet mfg	1	110	31	2 096	39 456	1 693	2 955	25 629	77 821	105 928	183 342	3 660
321920	Wood container & pallet mfg	1	110	31	2 096	39 456	1 693	2 955	25 629	77 821	105 928	183 342	3 660

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg—Con.												
32199	All other wood product mfg	2	85	25	1 901	37 307	1 456	2 793	23 070	69 298	69 516	138 462	3 412
321991	Manufactured home (mobile home) mfg ..	—	2	2	e	D	D	D	D	D	D	D	D
321992	Prefabricated wood building mfg	1	14	2	c	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg ...	3	69	21	1 465	27 251	1 178	2 278	17 819	48 936	42 606	91 103	2 442
322	Paper mfg	—	136	93	12 788	413 822	10 269	20 845	294 020	1 370 113	1 592 192	2 986 338	90 522
3222	Converted paper product mfg	—	135	92	j	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	72	57	6 005	197 175	4 672	9 568	131 311	408 078	651 941	1 077 368	35 354
322211	Corrugated & solid fiber box mfg	—	45	38	3 013	101 462	2 194	4 461	58 664	193 006	400 562	601 145	15 535
322212	Folding paperboard box mfg	—	15	9	1 353	51 473	1 086	2 490	37 481	111 522	149 038	263 937	16 988
322213	Setup paperboard box mfg	2	3	3	e	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, & similar products mfg	3	6	4	c	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg ...	—	3	3	1 165	35 386	1 009	1 876	29 028	82 145	82 394	170 536	722
32222	Paper bag & coated & treated paper mfg	1	26	13	g	D	D	D	D	D	D	D	D
322221	Coated & laminated packaging paper & plastics film mfg	—	3	2	e	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	5	14	4	494	15 340	344	847	8 722	37 527	59 430	98 457	3 071
322224	Uncoated paper & multiwall bag mfg	—	6	5	916	21 052	782	1 230	14 945	57 146	83 080	139 754	1 256
322226	Surface-coated paperboard mfg	—	2	2	c	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	26	15	3 029	96 294	2 497	5 200	72 246	271 721	339 420	597 056	13 408
322231	Die-cut paper & paperboard office supplies mfg	—	11	4	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	9	8	g	D	D	D	D	D	D	D	5 972
322233	Stationery, tablet, & related product mfg ..	—	6	3	1 170	33 183	933	1 638	23 382	64 445	136 058	188 398	D
32229	Other converted paper product mfg	—	11	7	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	—	3	2	g	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	7	8	5	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	1 011	212	22 011	684 148	16 179	30 571	424 746	1 564 800	1 045 782	2 602 395	105 408
3231	Printing & related support activities	1	1 011	212	22 011	684 148	16 179	30 571	424 746	1 564 800	1 045 782	2 602 395	105 408
32311	Printing	1	884	176	19 496	600 997	14 238	26 824	370 815	1 402 300	1 008 541	2 402 835	96 367
323110	Commercial lithographic printing ..	2	445	96	9 335	316 656	6 658	12 497	190 169	595 128	433 390	1 023 743	43 421
323111	Commercial gravure printing	—	13	4	859	33 694	684	1 417	23 099	83 082	71 584	154 195	8 305
323112	Commercial flexographic printing ..	—	33	12	787	23 059	511	977	11 644	51 359	52 979	104 789	3 928
323113	Commercial screen printing	1	95	17	1 193	25 794	912	1 672	15 943	64 324	46 760	108 345	2 843
323114	Quick printing	1	153	9	1 400	33 856	1 050	1 789	24 652	88 660	38 266	126 653	8 187
323116	Manifold business form printing	1	26	12	1 285	43 723	926	1 919	30 038	217 157	121 815	339 520	7 726
323117	Book printing	—	16	10	2 690	79 799	2 073	4 110	48 981	194 661	176 669	369 028	17 817
323118	Blankbook, looseleaf binder, & device mfg ..	—	10	5	1 160	24 465	895	1 556	16 020	68 696	42 724	112 556	1 735
323119	Other commercial printing	7	87	9	693	16 504	480	778	8 949	33 141	22 306	55 891	2 242
32312	Support activities for printing	1	127	36	2 515	83 151	1 941	3 747	53 931	162 500	37 241	199 560	9 041
323121	Tradebinding & related work	1	34	10	707	16 838	611	1 149	11 496	31 331	5 967	37 197	2 229
323122	Prepress services	1	93	26	1 808	66 313	1 330	2 598	42 435	131 169	31 274	162 363	6 812
324	Petroleum & coal products mfg	2	53	12	1 398	59 854	866	1 903	31 116	192 912	335 934	533 284	11 751

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
324	Petroleum & coal products mfg—Con.												
3241	Petroleum & coal products mfg	2	53	12	1 398	59 854	866	1 903	31 116	192 912	335 934	533 284	11 751
32412	Asphalt paving, roofing, & saturated materials mfg	2	39	7	995	33 279	671	1 485	20 642	120 582	186 377	308 853	9 249
324121	Asphalt paving mixture & block mfg	2	32	3	315	10 170	219	507	6 897	40 221	69 063	109 934	3 949
324122	Asphalt shingle & coating materials mfg	2	7	4	680	23 109	452	978	13 745	80 361	117 314	198 919	5 300
32419	Other petroleum & coal products mfg	1	12	4	e	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil & grease mfg	1	12	4	e	D	D	D	D	D	D	D	D
325	Chemical mfg	—	366	153	20 919	813 235	12 179	24 945	401 534	7 225 097	3 370 521	10 558 718	300 953
3251	Basic chemical mfg	1	51	22	1 970	82 327	1 323	2 837	49 557	432 762	375 815	801 619	38 630
32512	Industrial gas mfg	5	9	3	c	D	D	D	D	D	D	D	D
325120	Industrial gas mfg	5	9	3	c	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg	—	6	3	458	19 741	284	611	10 782	92 423	55 582	142 607	8 856
325131	Inorganic dye & pigment mfg	—	2	2	c	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg	—	4	1	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	13	6	509	24 505	344	701	16 034	112 652	106 504	217 192	4 538
325188	All other basic inorganic chemical mfg	—	11	5	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	1	22	10	850	32 945	624	1 378	20 989	211 340	197 224	409 297	23 962
325191	Gum & wood chemical mfg	—	8	2	245	6 658	218	439	5 303	63 004	31 481	93 156	5 067
325199	All other basic organic chemical mfg	1	14	8	605	26 287	406	939	15 686	148 336	165 743	316 141	18 895
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	6	4	214	8 191	158	350	6 112	30 204	49 248	79 438	3 296
32521	Resin & synthetic rubber mfg	—	6	4	214	8 191	158	350	6 112	30 204	49 248	79 438	3 296
325211	Plastics material & resin mfg	—	6	4	214	8 191	158	350	6 112	30 204	49 248	79 438	3 296
3253	Pesticide, fertilizer, & other agricultural chemical mfg	—	37	14	2 711	128 375	1 184	2 711	47 095	1 681 268	663 313	2 362 820	84 178
32531	Fertilizer mfg	—	20	5	366	12 705	201	400	6 509	34 555	120 788	155 068	6 422
325311	Nitrogenous fertilizer mfg	—	6	3	201	7 014	100	209	4 081	14 352	72 476	86 235	4 874
325314	Fertilizer (mixing only) mfg	1	14	2	165	5 691	101	191	2 428	20 203	48 312	68 833	1 548
32532	Pesticide & other agricultural chemical mfg	—	17	9	2 345	115 670	983	2 311	40 586	1 646 713	542 525	2 207 752	77 756
325320	Pesticide & other agricultural chemical mfg	—	17	9	2 345	115 670	983	2 311	40 586	1 646 713	542 525	2 207 752	77 756
3254	Pharmaceutical & medicine mfg	—	63	29	6 853	271 967	3 436	6 755	119 067	2 658 414	801 817	3 421 104	90 034
32541	Pharmaceutical & medicine mfg	—	63	29	6 853	271 967	3 436	6 755	119 067	2 658 414	801 817	3 421 104	90 034
325411	Medicinal & botanical mfg	—	8	5	3 060	122 371	1 284	2 810	49 327	517 402	254 636	793 027	56 045
325412	Pharmaceutical preparation mfg	—	34	18	3 072	120 022	1 653	3 059	54 207	2 073 576	504 093	2 516 545	23 787
325414	Biological product (except diagnostic) mfg	3	16	6	708	29 167	491	874	15 392	66 345	42 751	110 099	10 091
3255	Paint, coating, & adhesive mfg	2	78	32	3 179	113 673	1 895	3 929	50 108	531 471	448 596	977 775	21 790
32551	Paint & coating mfg	2	60	21	1 716	66 730	837	1 525	23 540	304 785	280 946	585 263	10 407
325510	Paint & coating mfg	2	60	21	1 716	66 730	837	1 525	23 540	304 785	280 946	585 263	10 407
32552	Adhesive mfg	1	18	11	1 463	46 943	1 058	2 404	26 568	226 686	167 650	392 512	11 383
325520	Adhesive mfg	1	18	11	1 463	46 943	1 058	2 404	26 568	226 686	167 650	392 512	11 383
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	69	26	3 642	128 757	2 616	5 349	84 474	1 648 960	776 900	2 421 318	44 091
32561	Soap & cleaning compound mfg	—	57	20	3 131	112 599	2 322	4 732	76 626	1 608 085	705 151	2 309 495	40 721
325611	Soap & other detergent mfg	—	35	11	1 858	69 534	1 370	2 659	46 301	1 197 803	467 353	1 661 062	22 346
325612	Polish & other sanitation good mfg ..	1	21	8	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg	2	12	6	511	16 158	294	617	7 848	40 875	71 749	111 823	3 370
325620	Toilet preparation mfg	2	12	6	511	16 158	294	617	7 848	40 875	71 749	111 823	3 370

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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3259	Other chemical product mfg.....	-	62	26	2 350	79 945	1 567	3 014	45 121	242 018	254 832	494 644	18 934
32591	Printing ink mfg.....	1	17	7	381	14 454	171	358	6 430	32 789	79 178	111 390	D
325910	Printing ink mfg.....	1	17	7	381	14 454	171	358	6 430	32 789	79 178	111 390	D
32592	Explosives mfg.....	-	8	3	565	17 829	475	925	14 173	82 408	58 429	143 507	D
325920	Explosives mfg.....	-	8	3	565	17 829	475	925	14 173	82 408	58 429	143 507	D
32599	All other chemical product & preparation mfg.....	-	37	16	1 404	47 662	921	1 731	24 518	126 821	117 225	239 747	7 734
325991	Custom compounding of purchased resin...	-	11	5	323	11 141	257	493	6 472	26 452	42 062	67 943	2 772
325992	Photographic film, paper, plate, & chemical mfg.....	-	6	5	723	26 164	440	868	12 632	57 038	33 118	86 427	3 220
325998	All other miscellaneous chemical product & preparation mfg.....	-	20	6	358	10 357	224	370	5 414	43 331	42 045	85 377	1 742
326	Plastics & rubber products mfg.....	1	359	191	21 307	549 994	16 882	32 023	360 916	1 755 691	1 481 090	3 236 027	200 939
3261	Plastics product mfg.....	1	296	162	17 529	452 120	13 900	26 099	293 964	1 450 738	1 202 743	2 640 039	181 012
32611	Unsupported plastics film, sheet, & bag mfg..	1	29	18	2 548	85 687	1 981	4 032	54 105	404 626	277 509	674 512	65 814
326111	Unsupported plastics bag mfg.....	2	7	6	877	29 586	679	1 456	15 896	76 777	76 840	152 236	D
326112	Unsupported plastics packaging film & sheet mfg.....	4	3	3	221	7 727	151	244	3 685	28 202	19 738	44 312	D
326113	Unsupported plastics film & sheet (except packaging) mfg.....	-	19	9	1 450	48 374	1 151	2 332	34 524	299 647	180 931	477 964	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg.....	5	22	11	635	20 991	497	1 031	14 018	76 326	75 865	152 057	8 020
326121	Unsupported plastics profile shape mfg....	7	15	8	488	16 877	383	772	10 896	67 633	45 890	113 625	5 872
326122	Plastics pipe & pipe fitting mfg.....	-	7	3	147	4 114	114	259	3 122	8 693	29 975	38 432	2 148
32613	Laminated plastics plate, sheet, & shape mfg....	4	12	1	139	4 711	112	254	3 033	12 525	9 722	22 057	2 759
326130	Laminated plastics plate, sheet, & shape mfg.....	4	12	1	139	4 711	112	254	3 033	12 525	9 722	22 057	2 759
32614	Polystyrene foam product mfg.....	6	15	12	765	21 291	609	1 166	14 435	67 928	82 235	150 323	3 823
326140	Polystyrene foam product mfg.....	6	15	12	765	21 291	609	1 166	14 435	67 928	82 235	150 323	3 823
32615	Urethane & other foam product (except polystyrene) mfg.....	-	13	8	772	22 041	552	1 044	13 694	66 258	89 414	155 674	3 477
326150	Urethane & other foam product (except polystyrene) mfg....	-	13	8	772	22 041	552	1 044	13 694	66 258	89 414	155 674	3 477
32616	Plastics bottle mfg.....	-	16	12	975	27 626	852	1 710	21 240	77 303	65 266	143 510	13 015
326160	Plastics bottle mfg....	-	16	12	975	27 626	852	1 710	21 240	77 303	65 266	143 510	13 015
32619	Other plastics product mfg.....	1	189	100	11 695	269 773	9 297	16 862	173 439	745 772	602 732	1 341 906	84 104
326191	Plastics plumbing fixture mfg.....	6	17	1	132	3 409	101	203	2 486	6 650	5 131	11 802	213
326199	All other plastics product mfg.....	1	172	99	11 563	266 364	9 196	16 659	170 953	739 122	597 601	1 330 104	83 891
3262	Rubber product mfg.....	-	63	29	3 778	97 874	2 982	5 924	66 952	304 953	278 347	595 988	19 927
32621	Tire mfg.....	1	21	10	880	21 840	662	1 301	14 521	58 087	61 401	117 588	1 862
326211	Tire mfg (except retreading).....	2	3	3	495	13 062	391	793	9 425	37 802	34 189	70 037	D
326212	Tire retreading.....	-	18	7	385	8 778	271	508	5 096	20 285	27 212	47 551	D
32622	Rubber & plastics hoses & belting mfg.....	-	8	5	994	26 147	842	1 711	19 305	95 834	47 295	154 903	5 276
326220	Rubber & plastics hoses & belting mfg..	-	8	5	994	26 147	842	1 711	19 305	95 834	47 295	154 903	5 276
32629	Other rubber product mfg.....	-	34	14	1 904	49 887	1 478	2 912	33 126	151 032	169 651	323 497	12 789
326291	Rubber product mfg for mechanical use.....	-	12	6	1 043	28 190	862	1 752	20 719	96 091	104 123	202 452	10 094
326299	All other rubber product mfg.....	2	22	8	861	21 697	616	1 160	12 407	54 941	65 528	121 045	2 695

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)				
MISSOURI—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	429	134	11 244	346 629	8 642	16 958	245 048	1 029 067	759 611	1 786 330	114 141
3271	Clay product & refractory mfg	—	32	19	1 898	63 549	1 554	2 970	48 424	137 712	116 748	253 922	6 277
32711	Pottery, ceramics, & plumbing fixture mfg ...	—	15	5	320	8 020	278	512	6 006	21 487	9 926	31 550	553
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	1	1	c	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	—	13	4	c	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	—	17	14	1 578	55 529	1 276	2 458	42 418	116 225	106 822	222 372	5 724
327121	Brick & structural clay tile mfg	—	3	3	c	D	D	D	D	D	D	D	D
327124	Clay refractory mfg ...	—	11	10	1 387	49 686	1 138	2 185	38 897	103 678	97 915	200 602	5 263
3272	Glass & glass product mfg .	—	41	7	1 402	44 033	1 131	2 216	32 979	146 557	60 954	204 915	D
32721	Glass & glass product mfg	—	41	7	1 402	44 033	1 131	2 216	32 979	146 557	60 954	204 915	D
327212	Other pressed & blown glass & glassware mfg	—	7	3	811	23 817	663	1 297	18 148	69 984	20 792	89 277	921
327213	Glass container mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	1	33	3	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	302	92	6 088	177 828	4 521	8 821	119 319	557 710	470 655	1 032 722	58 154
32731	Cement mfg	—	15	7	1 068	43 174	733	1 629	26 806	246 602	135 035	385 710	18 841
327310	Cement mfg	—	15	7	1 068	43 174	733	1 629	26 806	246 602	135 035	385 710	18 841
32732	Ready-mix concrete mfg .	3	188	55	3 155	84 904	2 538	4 489	62 583	198 530	249 713	449 592	26 229
327320	Ready-mix concrete mfg	3	188	55	3 155	84 904	2 538	4 489	62 583	198 530	249 713	449 592	26 229
32733	Concrete pipe, brick, & block mfg	3	31	16	705	22 481	408	959	11 653	55 046	50 402	105 110	5 687
327331	Concrete block & brick mfg	3	19	9	412	11 706	194	446	4 743	29 688	32 570	62 011	2 322
327332	Concrete pipe mfg	4	12	7	293	10 775	214	513	6 910	25 358	17 832	43 099	3 365
32739	Other concrete product mfg	1	68	14	1 160	27 269	842	1 744	18 277	57 532	35 505	92 310	7 397
327390	Other concrete product mfg	1	68	14	1 160	27 269	842	1 744	18 277	57 532	35 505	92 310	7 397
3274	Lime & gypsum product mfg	—	7	4	956	32 453	750	1 627	24 692	93 880	46 185	137 179	D
32741	Lime mfg	—	4	2	f	D	D	D	D	D	D	D	D
327410	Lime mfg	—	4	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	1	47	12	900	28 766	686	1 324	19 634	93 208	65 069	157 592	5 688
32791	Abrasive product mfg ...	—	1	1	c	D	D	D	D	D	D	D	D
327910	Abrasive product mfg .	—	1	1	c	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	2	46	11	f	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg	6	20	1	c	D	D	D	D	D	D	D	D
327992	Ground or treated mineral & earth mfg ..	1	6	4	329	12 644	277	554	9 961	48 657	25 045	72 521	2 805
327993	Mineral wool mfg	4	7	3	123	3 403	84	123	1 649	11 276	11 195	22 747	863
327999	All other miscellaneous nonmetallic mineral product mfg	—	13	3	166	4 470	114	199	2 454	10 715	11 336	22 014	598
331	Primary metal mfg	—	114	67	12 629	413 932	9 923	19 612	297 862	1 171 066	1 449 803	2 609 690	116 155
3311	Iron & steel mills & ferroalloy mfg	—	2	2	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	2	2	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	2	2	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	20	14	2 089	64 086	1 558	3 297	44 325	174 639	325 571	496 127	D
33121	Iron & steel pipes & tubes mfg from purchased steel	—	3	3	285	8 912	229	378	6 898	27 604	56 296	82 384	D
331210	Iron & steel pipes & tubes mfg from purchased steel	—	3	3	285	8 912	229	378	6 898	27 604	56 296	82 384	D
33122	Rolling & drawing of purchased steel	—	17	11	1 804	55 174	1 329	2 919	37 427	147 035	269 275	413 743	14 450
331221	Cold-rolled steel shape mfg	—	5	2	247	7 938	130	307	3 400	17 829	63 735	82 414	1 654
331222	Steel wire drawing	—	12	9	1 557	47 236	1 199	2 612	34 027	129 206	205 540	331 329	12 796

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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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3313	Alumina & aluminum production & processing . . .	—	7	7	2 181	88 499	1 667	3 578	63 516	301 260	335 085	628 415	26 909
33131	Alumina & aluminum production & processing	—	7	7	2 181	88 499	1 667	3 578	63 516	301 260	335 085	628 415	26 909
331312	Primary aluminum production	—	1	1	g	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	—	1	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	3	3	599	16 065	488	1 166	12 152	47 635	61 446	108 924	1 713
3314	Nonferrous metal (except aluminum) production & processing	—	14	9	g	D	D	D	D	D	D	D	32 717
33141	Nonferrous metal (except aluminum) smelting & refining	—	3	2	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	—	3	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying . . .	—	3	3	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding	—	3	3	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying . . .	—	8	4	814	28 015	644	1 321	20 497	39 279	132 528	174 595	14 192
331491	Other nonferrous metal rolling, drawing, & extruding	—	3	1	c	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying . . .	—	5	3	f	D	D	D	D	D	D	D	D
3315	Foundries	—	71	35	5 800	158 508	4 743	8 469	118 551	384 195	238 338	615 502	33 827
33151	Ferrous metal foundries	—	24	12	1 339	36 073	1 098	2 288	26 717	95 154	52 064	145 913	5 930
331511	Iron foundries	—	11	6	772	21 061	644	1 375	15 555	56 904	23 348	80 644	3 805
331513	Steel foundries (except investment)	—	12	5	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	47	23	4 461	122 435	3 645	6 181	91 834	289 041	186 274	469 589	27 897
331521	Aluminum die-casting foundries	1	12	8	1 186	28 721	1 019	2 016	22 958	54 585	49 207	105 833	6 181
331522	Nonferrous (except aluminum) die-casting foundries	—	8	5	1 309	35 329	1 073	1 552	32 248	81 380	48 295	128 207	D
331524	Aluminum foundries (except die-casting) . . .	—	17	6	1 821	54 899	1 433	2 391	34 056	147 427	78 422	219 463	15 586
331525	Copper foundries (except die-casting) . . .	—	9	4	c	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	1 168	357	39 203	1 242 142	27 458	54 008	729 711	2 825 639	1 999 630	4 832 376	150 917
3321	Forging & stamping	1	61	24	2 044	66 232	1 571	3 215	46 744	166 948	160 137	321 011	12 887
33211	Forging & stamping	1	61	24	2 044	66 232	1 571	3 215	46 744	166 948	160 137	321 011	12 887
332111	Iron & steel forging	6	6	2	166	3 804	112	169	2 665	8 374	9 935	18 256	D
332114	Custom roll forming	—	11	2	197	7 022	146	309	4 189	34 018	53 046	79 567	1 905
332116	Metal stamping	—	40	18	1 601	53 003	1 251	2 600	38 162	120 479	95 037	217 084	10 403
3322	Cutlery & handtool mfg	1	37	15	1 385	41 761	1 027	2 014	26 018	80 395	56 180	142 991	5 550
33221	Cutlery & handtool mfg	1	37	15	1 385	41 761	1 027	2 014	26 018	80 395	56 180	142 991	5 550
332212	Hand & edge tool mfg	2	32	11	1 023	31 327	829	1 703	22 661	55 167	31 689	94 322	2 816
332213	Saw blade & handsaw mfg	—	3	3	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	258	100	9 457	276 007	6 473	13 371	151 963	615 518	569 969	1 180 896	26 340
33231	Plate work & fabricated structural product mfg . .	1	99	40	3 296	111 730	2 304	4 744	60 136	253 664	299 503	552 041	11 085
332311	Prefabricated metal building & component mfg	1	21	8	573	19 950	376	793	9 905	46 248	51 202	96 751	1 194
332312	Fabricated structural metal mfg	1	63	24	2 094	68 445	1 493	2 923	37 434	165 766	219 703	385 671	6 935
332313	Plate work mfg	—	15	8	629	23 335	435	1 028	12 797	41 650	28 598	69 619	2 956
33232	Ornamental & architectural metal products mfg	—	159	60	6 161	164 277	4 169	8 627	91 827	361 854	270 466	628 855	15 255
332321	Metal window & door mfg	—	29	14	2 816	69 953	1 811	4 015	34 658	170 373	115 491	282 629	4 821
332322	Sheet metal work mfg	1	86	36	2 313	70 554	1 677	3 280	43 325	142 911	115 941	259 493	8 452
332323	Ornamental & architectural metal work mfg	1	44	10	1 032	23 770	681	1 332	13 844	48 570	39 034	86 733	1 982

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg	—	49	28	3 682	138 873	2 641	5 286	88 740	272 511	415 854	697 870	23 014
33241	Power boiler & heat exchanger mfg	—	10	5	1 002	41 119	699	1 501	25 121	80 087	59 538	143 049	3 811
332410	Power boiler & heat exchanger mfg	—	10	5	1 002	41 119	699	1 501	25 121	80 087	59 538	143 049	3 811
33242	Metal tank (heavy gauge) mfg	—	16	13	1 455	48 691	986	1 952	26 571	73 587	64 323	136 719	7 386
332420	Metal tank (heavy gauge) mfg	—	16	13	1 455	48 691	986	1 952	26 571	73 587	64 323	136 719	7 386
33243	Metal can, box, & other metal container (light gauge) mfg	—	23	10	1 225	49 063	956	1 833	37 048	118 837	291 993	418 102	11 817
332431	Metal can mfg	—	7	6	808	36 625	651	1 384	29 952	86 682	252 514	347 765	9 868
332439	Other metal container mfg	—	16	4	417	12 438	305	449	7 096	32 155	39 479	70 337	1 949
3325	Hardware mfg	2	16	7	443	9 835	359	599	7 007	21 128	20 048	40 190	736
33251	Hardware mfg	2	16	7	443	9 835	359	599	7 007	21 128	20 048	40 190	736
332510	Hardware mfg	2	16	7	443	9 835	359	599	7 007	21 128	20 048	40 190	736
3326	Spring & wire product mfg	—	41	17	4 027	77 180	3 012	6 077	55 493	222 969	197 461	424 191	9 277
33261	Spring & wire product mfg	—	41	17	4 027	77 180	3 012	6 077	55 493	222 969	197 461	424 191	9 277
332611	Spring (heavy gauge) mfg	—	3	1	257	3 421	105	135	2 942	1 294	1 703	4 826	D
332612	Spring (light gauge) mfg	—	8	4	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	—	30	12	h	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	474	86	5 923	178 862	4 652	8 830	124 470	339 877	183 940	519 233	32 523
33271	Machine shops	1	397	55	3 799	112 347	2 935	5 302	76 941	202 704	91 215	292 369	17 303
332710	Machine shops	1	397	55	3 799	112 347	2 935	5 302	76 941	202 704	91 215	292 369	17 303
33272	Turned product & screw, nut, & bolt mfg	—	77	31	2 124	66 515	1 717	3 528	47 529	137 173	92 725	226 864	15 220
332721	Precision turned product mfg	—	58	21	1 686	51 005	1 383	2 862	37 376	109 300	73 976	180 813	12 058
332722	Bolt, nut, screw, rivet, & washer mfg	1	19	10	438	15 510	334	666	10 153	27 873	18 749	46 051	3 162
3328	Coating, engraving, heat treating, & allied activities	2	119	36	2 514	73 443	1 933	3 789	49 720	174 743	46 932	221 990	14 172
33281	Coating, engraving, heat treating, & allied activities	2	119	36	2 514	73 443	1 933	3 789	49 720	174 743	46 932	221 990	14 172
332811	Metal heat treating	1	8	5	231	6 919	178	388	5 128	22 104	3 424	25 521	1 826
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	40	12	1 062	36 751	788	1 518	25 427	95 050	22 467	117 439	7 110
332813	Electroplating, plating, polishing, anodizing, & coloring	2	71	19	1 221	29 773	967	1 883	19 165	57 589	21 041	79 030	5 236
3329	Other fabricated metal product mfg	—	113	44	9 728	379 949	5 790	10 827	179 556	931 550	349 109	1 284 004	26 418
33291	Metal valve mfg	1	27	18	3 054	90 750	2 306	4 317	50 902	301 194	187 913	497 149	15 387
332911	Industrial valve mfg	—	13	9	1 625	50 206	1 113	2 075	24 756	112 576	67 755	182 678	6 704
332912	Fluid power valve & hose fitting mfg	—	7	3	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	2	6	5	992	30 581	787	1 493	19 748	128 653	94 569	222 060	7 128
33299	All other fabricated metal product mfg	—	86	26	6 674	289 199	3 484	6 510	128 654	630 356	161 196	786 855	11 031
332991	Ball & roller bearing mfg	—	1	1	e	D	D	D	D	D	D	D	D
332992	Small arms ammunition mfg	—	4	3	g	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	—	1	1	h	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	—	19	4	396	8 500	283	596	5 499	20 277	27 475	46 576	1 612
332997	Industrial pattern mfg	—	15	3	180	6 788	145	299	4 829	9 587	4 671	14 309	1 735
332998	Enameled iron & metal sanitary ware mfg	—	5	3	187	5 964	148	245	4 333	15 324	15 212	29 824	D
332999	All other miscellaneous fabricated metal product mfg	1	37	11	756	20 813	531	987	12 168	45 037	63 832	107 830	2 873

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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	579	213	31 512	963 965	22 415	44 249	577 058	2 569 904	2 275 495	4 866 171	188 306
3331	Agriculture, construction, & mining machinery mfg.	-	53	22	2 821	86 208	2 079	4 026	51 638	247 194	317 384	558 396	16 206
33311	Agricultural implement mfg	-	31	10	1 482	49 537	1 053	2 064	29 016	87 822	168 824	252 830	6 782
333111	Farm machinery & equipment mfg	-	27	7	1 229	44 402	835	1 621	25 018	67 548	147 795	215 002	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	4	3	253	5 135	218	443	3 998	20 274	21 029	37 828	D
33312	Construction machinery mfg	-	11	5	896	20 637	737	1 384	14 362	121 225	115 061	234 827	8 421
333120	Construction machinery mfg	-	11	5	896	20 637	737	1 384	14 362	121 225	115 061	234 827	8 421
33313	Mining & oil & gas field machinery mfg	3	11	7	443	16 034	289	578	8 260	38 147	33 499	70 739	1 003
333131	Mining machinery & equipment mfg	4	10	6	e	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	-	1	1	c	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	1	90	30	2 514	83 028	1 606	3 234	42 415	189 779	125 606	310 884	7 304
33321	Sawmill & woodworking machinery mfg	-	11	2	129	2 750	77	142	1 347	8 000	5 159	13 053	78
333210	Sawmill & woodworking machinery mfg	-	11	2	129	2 750	77	142	1 347	8 000	5 159	13 053	78
33322	Plastics & rubber industry machinery mfg	1	8	3	154	5 480	98	202	2 194	11 618	5 418	17 147	417
333220	Plastics & rubber industry machinery mfg	1	8	3	154	5 480	98	202	2 194	11 618	5 418	17 147	417
33329	Other industrial machinery mfg	1	71	25	2 231	74 798	1 431	2 890	38 874	170 161	115 029	280 684	6 809
333291	Paper industry machinery mfg	-	6	2	166	7 093	117	245	4 310	14 053	8 517	22 621	1 981
333292	Textile machinery mfg.	9	6	1	c	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg	-	18	6	743	28 375	428	927	14 673	66 255	48 918	111 664	1 790
333294	Food product machinery mfg	1	11	4	234	7 295	175	320	4 180	15 925	11 135	25 224	413
333295	Semiconductor machinery mfg	-	2	1	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	1	28	11	680	19 912	450	850	9 030	47 939	38 796	87 621	1 775
3333	Commercial & service industry machinery mfg ..	-	52	17	2 471	75 062	1 426	2 694	30 883	282 721	218 261	501 453	10 224
33331	Commercial & service industry machinery mfg	-	52	17	2 471	75 062	1 426	2 694	30 883	282 721	218 261	501 453	10 224
333311	Automatic vending machine mfg	-	5	3	g	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg	-	5	2	c	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg	-	31	10	985	35 474	465	833	9 634	93 723	91 952	183 733	4 009
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	38	25	8 141	214 656	6 409	12 909	149 333	635 160	710 891	1 351 733	62 667
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	38	25	8 141	214 656	6 409	12 909	149 333	635 160	710 891	1 351 733	62 667
333411	Air purification equipment mfg	-	4	3	215	5 174	180	343	3 741	12 761	11 763	25 065	D
333412	Industrial & commercial fan & blower mfg	1	6	6	1 573	39 696	1 259	2 709	26 563	115 633	85 587	201 617	5 489
333414	Heating equipment (except warm air furnaces) mfg	-	12	3	817	15 597	632	734	7 846	46 224	83 793	136 983	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	16	13	5 536	154 189	4 338	9 123	111 183	460 542	529 748	988 068	53 278
3335	Metalworking machinery mfg	1	185	50	4 620	168 340	3 270	6 615	112 808	335 548	184 163	508 157	27 839

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

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MISSOURI—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3335	Metalworking machinery mfg—Con.												
33351	Metalworking machinery mfg	1	185	50	4 620	168 340	3 270	6 615	112 808	335 548	184 163	508 157	27 839
333511	Industrial mold mfg	—	50	13	1 256	55 176	948	2 015	39 316	105 142	29 709	138 370	7 292
333512	Machine tool (metal cutting types) mfg ...	—	2	1	e	D	D	D	D	D	D	D	D
333513	Machine tool (metal forming types) mfg ...	1	6	3	c	D	D	D	D	D	D	D	D
333514	Special die & tool, die set, jig, & fixture mfg .	1	88	21	1 414	43 117	1 136	2 108	30 780	81 863	55 490	136 114	9 959
333515	Cutting tool & machine tool accessory mfg ..	1	33	8	1 262	47 271	832	1 742	28 860	91 958	39 533	128 407	9 312
333518	Other metalworking machinery mfg	—	5	3	228	11 639	149	369	7 589	39 643	46 216	76 205	462
3336	Engine, turbine, & power transmission equipment mfg	—	30	16	3 048	75 944	2 495	4 646	55 242	295 455	284 089	592 125	38 114
33361	Engine, turbine, & power transmission equipment mfg	—	30	16	3 048	75 944	2 495	4 646	55 242	295 455	284 089	592 125	38 114
333612	Speed changer, industrial high-speed drive, & gear mfg	1	12	7	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg	—	6	2	c	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	11	7	2 154	50 611	1 840	3 142	37 326	223 380	210 281	449 163	27 999
3339	Other general-purpose machinery mfg	—	131	53	7 897	260 727	5 130	10 125	134 739	584 047	435 101	1 043 423	25 952
33391	Pump & compressor mfg	—	13	6	711	25 834	513	1 036	16 846	113 857	76 968	196 020	2 739
333911	Pump & pumping equipment mfg	1	8	3	197	7 443	110	216	3 205	24 604	17 439	41 757	553
333912	Air & gas compressor mfg	—	4	2	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	1	44	19	2 097	63 692	1 389	2 483	33 335	127 993	143 658	285 351	5 934
333921	Elevator & moving stairway mfg	—	2	1	e	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	1	27	15	1 458	47 242	982	1 663	24 809	98 872	113 952	224 624	5 377
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	4	10	3	217	6 185	164	308	3 796	11 809	11 100	23 038	376
33399	All other general-purpose machinery mfg	—	74	28	5 089	171 201	3 228	6 606	84 558	342 197	214 475	562 052	17 279
333992	Welding & soldering equipment mfg	—	4	3	553	19 398	378	837	11 356	40 420	40 988	81 448	553
333993	Packaging machinery mfg	—	8	4	721	32 899	325	734	10 972	84 085	58 230	142 879	3 055
333994	Industrial process furnace & oven mfg ..	—	14	10	1 518	40 648	1 028	2 049	20 461	92 639	31 565	124 066	3 012
333997	Scale & balance (except laboratory) mfg	1	3	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	—	36	9	1 769	65 095	1 183	2 338	36 160	105 632	66 688	176 564	9 977
334	Computer & electronic product mfg	—	175	73	14 880	461 091	9 131	17 401	208 432	2 166 155	931 856	3 125 987	171 017
3341	Computer & peripheral equipment mfg	4	22	8	605	16 725	355	672	7 416	35 669	57 730	93 935	2 743
33411	Computer & peripheral equipment mfg	4	22	8	605	16 725	355	672	7 416	35 669	57 730	93 935	2 743
334111	Electronic computer mfg	—	9	2	203	4 954	127	281	2 126	15 601	33 662	49 286	463
334119	Other computer peripheral equipment mfg	8	9	5	358	10 490	209	354	4 385	17 703	21 153	39 304	1 918
3342	Communications equipment mfg	1	26	7	1 781	40 964	675	1 091	10 935	173 902	75 172	247 307	15 557
33421	Telephone apparatus mfg	6	8	3	c	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	6	8	3	c	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	—	10	3	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	—	10	3	g	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	—	6	4	1 600	39 054	1 015	1 945	18 888	67 073	166 621	235 159	1 274
33431	Audio & video equipment mfg	—	6	4	1 600	39 054	1 015	1 945	18 888	67 073	166 621	235 159	1 274
334310	Audio & video equipment mfg	—	6	4	1 600	39 054	1 015	1 945	18 888	67 073	166 621	235 159	1 274

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	-	50	27	6 145	177 484	4 775	9 197	112 710	1 380 145	340 040	1 710 323	116 427
33441	Semiconductor & other electronic component mfg	-	50	27	6 145	177 484	4 775	9 197	112 710	1 380 145	340 040	1 710 323	116 427
334412	Bare printed circuit board mfg	-	6	3	747	20 228	513	1 139	10 419	86 713	35 272	119 720	D
334413	Semiconductor & related device mfg ...	-	9	4	h	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg	-	5	2	c	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	4	3	f	D	D	D	D	D	D	D	1 295
334418	Printed circuit assembly (electronic assembly) mfg	-	8	6	570	14 328	386	700	6 614	35 328	65 780	100 250	1 062
334419	Other electronic component mfg	1	17	9	903	21 559	660	1 270	10 757	58 728	33 891	93 256	2 633
3345	Navigational, measuring, medical, & control instruments mfg	-	54	22	4 004	163 595	1 872	3 416	45 885	386 951	189 383	611 515	23 340
33451	Navigational, measuring, medical, & control instruments mfg	-	54	22	4 004	163 595	1 872	3 416	45 885	386 951	189 383	611 515	23 340
334510	Electromedical & electrotherapeutic apparatus mfg	-	11	3	787	42 630	154	319	5 408	110 147	47 130	160 395	D
334511	Search, detection, navigation, & guidance instrument mfg	-	4	3	g	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	-	7	5	1 225	40 259	732	1 493	15 723	143 552	62 755	216 093	5 181
334513	Industrial process control instrument mfg	1	10	3	293	7 260	209	257	3 324	19 881	8 802	29 662	362
334515	Electricity measuring & testing instrument mfg	-	5	3	231	9 223	101	201	2 738	15 381	10 716	23 623	392
334516	Analytical laboratory instrument mfg	-	8	3	c	D	D	D	D	D	D	D	705
334519	Other measuring & controlling device mfg	9	5	2	247	10 042	128	261	3 414	20 424	13 504	34 714	1 124
3346	Mfg & reproducing magnetic & optical media .	-	17	5	745	23 269	439	1 080	12 598	122 415	102 910	227 748	11 676
33461	Mfg & reproducing magnetic & optical media	-	17	5	745	23 269	439	1 080	12 598	122 415	102 910	227 748	11 676
334611	Software reproducing .	-	4	1	e	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	4	10	3	c	D	D	D	D	D	D	D	776
334613	Magnetic & optical recording media mfg .	-	3	1	c	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	137	83	18 969	503 570	15 244	29 031	346 048	1 554 008	1 556 144	3 109 244	115 650
3351	Electric lighting equipment mfg	-	15	12	1 273	40 363	1 072	2 375	33 287	157 287	89 163	246 341	4 331
33511	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	2	14	11	f	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	4	5	2	199	3 313	155	271	2 342	6 059	7 521	13 391	D
335122	Commercial/industrial/ institutional electric lighting fixture mfg ...	-	7	7	565	15 567	471	997	11 289	34 431	42 435	77 168	2 570
335129	Other lighting equipment mfg	9	2	2	c	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	11	8	2 965	52 429	2 677	4 780	44 872	173 150	291 171	480 758	23 350
33521	Small electrical appliance mfg	-	6	5	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	-	6	5	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	5	3	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	4	2	g	D	D	D	D	D	D	D	D
335224	Household laundry equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3353	Electrical equipment mfg ..	-	59	31	7 946	214 012	6 392	11 849	146 737	621 485	565 337	1 180 194	33 825
33531	Electrical equipment mfg	-	59	31	7 946	214 012	6 392	11 849	146 737	621 485	565 337	1 180 194	33 825
335311	Power, distribution, & specialty transformer mfg	-	8	6	1 474	51 168	1 189	1 747	36 820	135 415	175 723	309 507	8 661
335312	Motor & generator mfg	-	19	12	4 972	116 235	4 127	7 996	83 333	339 810	286 066	621 251	20 844
335313	Switchgear & switchboard apparatus mfg	-	15	6	1 160	34 931	917	1 811	23 246	120 946	87 986	208 143	3 213
335314	Relay & industrial control mfg	4	17	7	340	11 678	159	295	3 338	25 314	15 562	41 293	1 107
3359	Other electrical equipment & component mfg	-	52	32	6 785	196 766	5 103	10 027	121 152	602 086	610 473	1 201 951	54 144
33591	Battery mfg	-	8	6	2 885	77 164	2 335	4 383	56 059	277 822	240 876	514 485	D
335911	Storage battery mfg	-	7	5	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	5	5	665	18 796	566	1 127	14 156	99 125	179 048	272 992	4 437
335929	Other communication & energy wire mfg	-	5	5	665	18 796	566	1 127	14 156	99 125	179 048	272 992	4 437
33593	Wiring device mfg	-	24	13	2 678	86 960	1 800	3 763	44 711	186 164	161 551	347 255	14 403
335931	Current-carrying wiring device mfg	-	13	7	988	26 192	650	1 329	12 589	47 287	30 092	78 559	D
335932	Noncurrent-carrying wiring device mfg	-	11	6	1 690	60 768	1 150	2 434	32 122	138 877	131 459	268 696	D
33599	All other electrical equipment & component mfg	1	15	8	557	13 846	402	754	6 226	38 975	28 998	67 219	D
335999	All other miscellaneous electrical equipment & component mfg	2	14	7	e	D	D	D	D	D	D	D	608
336	Transportation equipment mfg	-	345	159	64 779	2 830 579	43 299	88 422	1 680 971	10 275 375	19 587 317	32 218 879	501 658
3361	Motor vehicle mfg	-	16	7	j	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	14	7	18 465	1 108 344	17 235	36 094	998 174	8 017 970	13 999 583	21 986 385	276 544
336111	Automobile mfg	9	6	2	120	2 255	105	88	1 900	7 582	16 036	23 688	497
336112	Light truck & utility vehicle mfg	-	8	5	18 345	1 106 089	17 130	36 006	996 274	8 010 388	13 983 547	21 962 697	276 047
3362	Motor vehicle body & trailer mfg	1	82	29	1 976	44 350	1 610	2 894	30 064	100 272	156 144	255 900	4 050
33621	Motor vehicle body & trailer mfg	1	82	29	1 976	44 350	1 610	2 894	30 064	100 272	156 144	255 900	4 050
336211	Motor vehicle body mfg	1	21	9	568	13 998	448	843	9 565	26 741	40 973	66 949	1 025
336212	Truck trailer mfg	1	20	7	509	12 309	433	841	9 022	31 817	50 286	80 509	1 604
336213	Motor home mfg	-	4	2	116	3 038	78	166	1 632	5 648	12 329	17 941	31
336214	Travel trailer & camper mfg	1	37	11	783	15 005	651	1 044	9 845	36 066	52 556	90 501	1 390
3363	Motor vehicle parts mfg ...	-	166	80	17 845	462 671	14 332	28 085	322 450	1 460 380	2 023 793	3 470 345	112 413
33631	Motor vehicle gasoline engine & engine parts mfg	1	38	4	797	20 563	602	1 245	14 866	39 662	49 524	87 462	2 435
336311	Carburetor, piston, piston ring, & valve mfg	-	3	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	2	35	3	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	29	11	1 400	40 559	937	1 883	16 591	85 144	90 011	174 962	6 739
336321	Vehicular lighting equipment mfg	-	5	3	772	24 769	532	1 202	10 394	54 422	62 995	117 101	4 788
336322	Other motor vehicle electrical & electronic equipment mfg	2	24	8	628	15 790	405	681	6 197	30 722	27 016	57 861	1 951
33633	Motor vehicle steering & suspension component (except spring) mfg	-	10	5	959	24 801	855	1 766	19 705	140 770	107 527	247 025	7 486
336330	Motor vehicle steering & suspension component (except spring) mfg	-	10	5	959	24 801	855	1 766	19 705	140 770	107 527	247 025	7 486
33634	Motor vehicle brake system mfg	1	15	11	2 665	56 553	2 134	3 696	39 594	148 977	133 406	281 982	12 450
336340	Motor vehicle brake system mfg	1	15	11	2 665	56 553	2 134	3 696	39 594	148 977	133 406	281 982	12 450

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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33635	Motor vehicle transmission & power train parts mfg	-	17	6	2 455	59 309	1 917	3 655	39 396	253 059	402 457	651 785	9 464
336350	Motor vehicle transmission & power train parts mfg	-	17	6	2 455	59 309	1 917	3 655	39 396	253 059	402 457	651 785	9 464
33636	Motor vehicle seating & interior trim mfg	-	13	9	1 718	49 194	1 493	2 318	39 534	230 435	459 118	690 050	2 912
336360	Motor vehicle seating & interior trim mfg	-	13	9	1 718	49 194	1 493	2 318	39 534	230 435	459 118	690 050	2 912
33637	Motor vehicle metal stamping	-	10	10	1 362	49 707	1 139	2 531	36 287	103 643	185 177	288 805	9 665
336370	Motor vehicle metal stamping	-	10	10	1 362	49 707	1 139	2 531	36 287	103 643	185 177	288 805	9 665
33639	Other motor vehicle parts mfg	1	34	24	6 489	161 985	5 255	10 991	116 477	458 690	596 573	1 048 274	61 262
336399	All other motor vehicle parts mfg	1	34	24	6 489	161 985	5 255	10 991	116 477	458 690	596 573	1 048 274	61 262
3364	Aerospace product & parts mfg	-	26	15	j	D	D	D	D	D	D	D	93 355
33641	Aerospace product & parts mfg	-	26	15	j	D	D	D	D	D	D	D	93 355
336411	Aircraft mfg	-	2	2	j	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	23	12	g	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg	-	10	7	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	10	7	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	10	7	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	31	14	2 550	55 649	2 095	3 843	37 741	177 270	212 905	388 234	3 661
33661	Ship & boat building	-	31	14	2 550	55 649	2 095	3 843	37 741	177 270	212 905	388 234	3 661
336611	Ship building & repairing	-	8	4	740	16 998	681	1 105	12 618	37 457	59 175	96 632	1 878
336612	Boat building	-	23	10	1 810	38 651	1 414	2 738	25 123	139 813	153 730	291 602	1 783
3369	Other transportation equipment mfg	-	14	7	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	14	7	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	-	12	6	462	11 720	371	719	7 874	30 635	87 885	117 964	D
337	Furniture & related product mfg	1	444	90	11 504	294 538	9 426	18 342	211 204	638 065	577 829	1 225 212	25 672
3371	Household & institutional furniture & kitchen cabinet mfg	1	333	54	8 563	212 554	7 154	13 894	161 598	485 363	435 465	920 528	20 036
33711	Wood kitchen cabinet & counter top mfg	1	220	20	2 156	51 692	1 735	3 214	36 855	87 313	67 095	154 509	4 668
337110	Wood kitchen cabinet & counter top mfg	1	220	20	2 156	51 692	1 735	3 214	36 855	87 313	67 095	154 509	4 668
33712	Household & institutional furniture mfg	1	113	34	6 407	160 862	5 419	10 680	124 743	398 050	368 370	766 019	15 368
337121	Upholstered household furniture mfg	-	20	4	2 101	52 395	1 903	3 881	45 832	125 569	89 048	213 726	2 915
337122	Nonupholstered wood household furniture mfg	2	64	9	2 666	65 259	2 306	4 429	53 360	172 720	190 410	365 179	6 466
337127	Institutional furniture mfg	-	20	18	1 449	39 210	1 050	2 063	23 042	92 942	80 500	172 935	5 328
3372	Office furniture (including fixtures) mfg	1	89	31	2 561	71 548	2 016	3 956	44 603	125 634	114 157	248 981	4 338
33721	Office furniture (including fixtures) mfg	1	89	31	2 561	71 548	2 016	3 956	44 603	125 634	114 157	248 981	4 338
337211	Wood office furniture mfg	-	7	2	106	2 530	83	133	1 460	4 502	2 288	6 778	D
337212	Custom architectural woodwork & millwork mfg	1	26	10	426	13 840	331	652	9 293	23 541	13 316	37 093	682
337214	Office furniture (except wood) mfg	-	5	2	208	6 750	169	280	4 955	3 517	13 148	26 432	D
337215	Showcase, partition, shelving, & locker mfg	1	51	17	1 821	48 428	1 433	2 891	28 895	94 074	85 405	178 678	3 447
3379	Other furniture related product mfg	-	22	5	380	10 436	256	492	5 003	27 068	28 207	55 703	1 298
33791	Mattress mfg	-	16	4	306	8 980	211	418	4 386	24 321	24 226	48 960	D
337910	Mattress mfg	-	16	4	306	8 980	211	418	4 386	24 321	24 226	48 960	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)				
	MISSOURI—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	602	138	14 010	373 399	9 402	17 820	193 569	996 118	618 068	1 611 946	48 576
3391	Medical equipment & supplies mfg.....	1	239	49	5 343	162 853	3 420	6 650	80 358	482 379	245 490	725 876	21 791
33911	Medical equipment & supplies mfg.....	1	239	49	5 343	162 853	3 420	6 650	80 358	482 379	245 490	725 876	21 791
339111	Laboratory apparatus & furniture mfg.....	-	7	1	199	8 153	73	158	2 105	13 766	6 359	19 939	359
339112	Surgical & medical instrument mfg.....	-	32	16	2 544	91 134	1 428	2 981	39 037	290 315	157 455	446 979	12 971
339113	Surgical appliance & supplies mfg.....	1	27	12	1 132	27 268	883	1 717	17 283	83 680	43 298	127 427	5 005
339114	Dental equipment & supplies mfg.....	2	14	4	247	7 846	163	331	3 651	30 955	9 565	39 568	742
339115	Ophthalmic goods mfg.....	1	9	5	318	7 198	225	452	5 084	18 049	12 164	28 948	1 421
339116	Dental laboratories ...	5	150	11	903	21 254	648	1 011	13 198	45 614	16 649	63 015	1 293
3399	Other miscellaneous mfg ..	2	363	89	8 667	210 546	5 982	11 170	113 211	513 739	372 578	886 070	26 785
33991	Jewelry & silverware mfg.....	4	27	2	162	3 266	115	186	1 804	7 269	5 015	12 192	207
33992	Sporting & athletic goods mfg.....	3	74	22	2 398	58 997	1 813	3 645	33 313	194 605	109 773	301 965	10 186
339920	Sporting & athletic goods mfg.....	3	74	22	2 398	58 997	1 813	3 645	33 313	194 605	109 773	301 965	10 186
33993	Doll, toy, & game mfg ...	2	31	5	697	14 657	582	1 058	11 381	50 179	35 790	86 712	3 014
339932	Game, toy, & children's vehicle mfg.....	2	22	5	659	14 137	551	1 004	10 999	48 847	34 951	84 515	2 968
33994	Office supplies (except paper) mfg.....	1	19	5	709	17 961	305	569	6 289	33 351	60 406	94 734	1 442
339942	Lead pencil & art good mfg.....	-	1	1	c	D	D	D	D	D	D	D	D
339943	Marking device mfg...	-	14	2	453	12 261	98	197	2 322	16 590	43 205	60 151	856
33995	Sign mfg.....	2	130	31	2 679	73 294	1 672	3 160	35 759	129 874	85 588	215 644	6 497
339950	Sign mfg.....	2	130	31	2 679	73 294	1 672	3 160	35 759	129 874	85 588	215 644	6 497
33999	All other miscellaneous mfg.....	1	82	24	2 022	42 371	1 495	2 552	24 665	98 461	76 006	174 823	5 439
339991	Gasket, packing, & sealing device mfg...	1	11	3	234	6 311	173	341	3 764	14 421	14 237	28 641	697
339994	Broom, brush, & mop mfg.....	-	7	4	144	3 348	120	207	1 780	7 903	8 273	16 041	123
339995	Burial casket mfg.....	-	5	2	c	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg.....	1	49	15	1 403	26 200	998	1 613	14 190	55 756	39 256	95 249	3 475

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)				
COLUMBIA, MO MSA													
31-33	Manufacturing	-	87	27	5 703	165 292	4 450	9 064	107 852	855 058	741 758	1 595 030	82 455
311	Food mfg	-	9	3	656	17 676	607	1 317	15 522	165 334	86 954	252 721	D
3116	Meat product mfg	-	2	2	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	e	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	3	606	15 833	486	957	10 504	47 582	78 427	126 180	3 146
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	3 146
32619	Other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	7	4	520	13 638	351	694	7 736	31 475	15 680	47 452	740
3332	Industrial machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	3	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
334413	Semiconductor & related device mfg	-	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	2	1	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	2	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
3363	Motor vehicle parts mfg	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
33635	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
JOPLIN, MO MSA													
31-33	Manufacturing	-	261	95	16 219	399 621	12 989	28 127	298 731	1 191 996	1 637 492	2 847 446	128 504
311	Food mfg	-	23	14	3 302	77 444	2 799	7 390	64 100	338 667	631 293	967 956	51 723
3111	Animal food mfg	-	4	3	276	7 927	215	496	5 291	27 361	109 904	136 446	D
31111	Animal food mfg	-	4	3	276	7 927	215	496	5 291	27 361	109 904	136 446	D
3112	Grain & oilseed milling	-	3	3	250	5 953	222	586	5 005	51 602	27 393	77 753	5 846
3115	Dairy product mfg	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	2	2	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	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
3118	Bakeries & tortilla mfg	-	5	2	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	2	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg	1	4	3	299	4 531	260	506	3 244	8 362	7 530	17 373	D
3152	Cut & sew apparel mfg	1	4	3	299	4 531	260	506	3 244	8 362	7 530	17 373	D
31522	Men's & boys' cut & sew apparel mfg	1	3	3	e	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	1	2	2	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg	-	4	2	e	D	D	D	D	D	D	D	153
3162	Footwear mfg	-	2	2	e	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	2	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) 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	JOPLIN, MO MSA—Con. Manufacturing— Con.												
321	Wood product mfg	2	17	5	273	5 133	236	434	4 137	15 152	24 796	40 796	D
324	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg	2	5	3	f	D	D	D	D	D	D	D	D
324122	Asphalt shingle & coating materials mfg	2	5	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	11	7	728	23 733	573	1 100	17 154	100 657	101 762	204 675	8 309
3259	Other chemical product mfg	—	5	3	f	D	D	D	D	D	D	D	D
32592	Explosives mfg	—	4	3	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	—	4	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	23	8	340	6 515	231	395	4 166	19 201	13 727	32 917	1 007
3273	Cement & concrete product mfg	—	15	6	252	4 593	165	295	2 907	15 031	10 649	25 615	786
331	Primary metal mfg	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	62	16	2 789	69 504	2 201	4 597	55 462	154 793	140 346	297 962	15 587
3323	Architectural & structural metals mfg	—	8	3	277	7 033	206	428	4 875	15 172	14 709	29 833	238
3326	Spring & wire product mfg	—	4	4	g	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	—	4	4	g	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	—	2	2	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	—	1	1	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	35	5	428	12 171	351	734	8 391	24 539	11 219	35 252	3 320
3329	Other fabricated metal product mfg	—	6	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	6	2	e	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	24	5	830	19 292	519	1 078	10 610	28 787	45 294	69 877	4 917
3339	Other general-purpose machinery mfg	1	6	1	e	D	D	D	D	D	D	D	15
33399	All other general-purpose machinery mfg	1	5	1	e	D	D	D	D	D	D	D	15
333997	Scale & balance (except laboratory) mfg	1	2	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	3	3	3	f	D	D	D	D	D	D	D	1 582
3344	Semiconductor & other electronic component mfg	—	2	2	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	2	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	6	4	2 149	52 218	1 814	3 779	41 626	162 111	272 796	450 348	D
3351	Electric lighting equipment mfg	—	2	2	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	2	2	e	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg	—	2	2	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	2	1	f	D	D	D	D	D	D	D	D
33591	Battery mfg	—	1	1	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg	—	1	1	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)				
31-33	JOPLIN, MO MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	-	9	3	830	18 991	609	1 187	12 666	46 560	33 330	80 164	D
3363	Motor vehicle parts mfg ...	-	5	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	21	11	1 852	47 786	1 625	3 115	39 706	113 191	70 585	182 010	4 026
3371	Household & institutional furniture & kitchen cabinet mfg	-	16	10	1 614	41 966	1 442	2 784	35 818	99 248	62 764	161 486	3 596
33712	Household & institutional furniture mfg	-	10	7	1 508	40 197	1 355	2 662	34 437	96 475	59 922	155 887	3 392
337121	Upholstered household furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	17	4	481	14 350	390	1 003	9 269	19 252	31 030	53 318	1 823
3399	Other miscellaneous mfg ...	2	10	4	467	14 004	378	988	9 097	18 369	30 582	51 971	1 784
33992	Sporting & athletic goods mfg	2	6	4	446	13 644	363	970	8 907	17 560	29 895	50 474	1 745
339920	Sporting & athletic goods mfg	2	6	4	446	13 644	363	970	8 907	17 560	29 895	50 474	1 745
	KANSAS CITY, MO—KS MSA												
31-33	Manufacturing	-	2 201	758	95 231	3 328 377	66 271	130 918	2 039 626	14 821 313	16 295 890	31 014 921	776 913
	Kansas City, MO—KS MSA (KS Part)	-	880	318	37 000	1 337 027	26 441	54 103	844 325	4 757 707	6 747 855	11 457 940	346 700
	Kansas City, MO—KS MSA (MO Part)	-	1 321	440	58 231	1 991 350	39 830	76 815	1 195 301	10 063 606	9 548 035	19 556 981	430 213
311	Food mfg	1	145	60	8 146	239 310	5 583	11 379	145 997	1 394 238	2 057 565	3 422 560	64 557
3111	Animal food mfg	1	12	7	486	15 322	339	830	9 230	24 865	86 997	111 841	3 414
31111	Animal food mfg	1	12	7	486	15 322	339	830	9 230	24 865	86 997	111 841	3 414
311119	Other animal food mfg	-	10	5	e	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	15	9	1 058	41 098	817	1 841	28 255	258 920	812 394	1 065 798	23 816
31121	Flour milling & malt mfg ...	-	8	4	362	15 544	287	716	11 521	96 381	300 457	396 655	9 625
311211	Flour milling	-	8	4	362	15 544	287	716	11 521	96 381	300 457	396 655	9 625
31122	Starch & vegetable fats & oils mfg	-	5	4	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	13	4	e	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	-	8	3	294	5 507	226	409	2 990	16 415	12 203	28 476	D
311330	Confectionery mfg from purchased chocolate	-	8	3	294	5 507	226	409	2 990	16 415	12 203	28 476	D
3115	Dairy product mfg	2	6	3	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	2	4	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	16	5	1 048	24 571	909	1 830	17 430	74 831	288 403	359 760	5 285
31161	Animal slaughtering & processing	-	16	5	1 048	24 571	909	1 830	17 430	74 831	288 403	359 760	5 285
311612	Meat processed from carcasses	1	4	2	273	5 543	250	491	3 552	12 494	52 600	64 874	D
311615	Poultry processing	-	2	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	51	15	2 154	68 438	1 340	2 693	39 620	321 272	189 756	505 911	4 600
31181	Bread & bakery product mfg	-	37	6	f	D	D	D	D	D	D	D	2 706
311812	Commercial bakeries ..	-	13	5	821	26 669	298	675	9 631	65 766	28 309	94 081	2 529
31182	Cookie, cracker, & pasta mfg	-	12	9	1 158	39 191	931	1 879	28 757	250 057	158 101	403 015	D
311821	Cookie & cracker mfg ...	-	4	2	f	D	D	D	D	D	D	D	D
311823	Dry pasta mfg	-	5	4	438	16 432	307	604	9 777	107 825	68 661	170 739	D
3119	Other food mfg	2	22	15	2 559	71 352	1 603	3 173	41 042	656 952	584 941	1 226 684	25 747
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	-	3	2	e	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	-	3	2	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	6	6	4	e	D	D	D	D	D	D	D	D
311942	Spice & extract mfg ...	-	4	2	e	D	D	D	D	D	D	D	D
31199	All other food mfg	1	11	8	712	19 923	429	819	8 297	67 161	133 923	200 881	D
311991	Perishable prepared food mfg	6	3	3	e	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg	-	8	5	e	D	D	D	D	D	D	D	D

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	KANSAS CITY, MO—KS MSA—Con.												
	Manufacturing—Con.												
312	Beverage & tobacco product mfg	1	14	6	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	1	13	6	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	1	7	5	347	11 979	203	486	7 125	131 443	245 653	376 593	4 014
312111	Soft drink mfg	1	4	4	e	D	D	D	D	D	D	D	D
314	Textile product mills	6	37	5	500	11 043	380	663	6 865	23 628	16 463	40 600	1 960
3149	Other textile product mills ..	6	22	5	459	10 443	345	605	6 505	22 282	15 085	37 889	1 927
31499	All other textile product mills	8	14	3	352	8 452	268	489	5 303	15 914	9 619	25 942	1 666
314999	All other miscellaneous textile product mills ..	8	14	3	352	8 452	268	489	5 303	15 914	9 619	25 942	1 666
315	Apparel mfg	2	45	13	g	D	D	D	D	D	D	D	1 647
3152	Cut & sew apparel mfg	2	27	11	f	D	D	D	D	D	D	D	1 328
31522	Men's & boys' cut & sew apparel mfg	2	8	5	f	D	D	D	D	D	D	D	1 044
315228	Men's & boys' cut & sew other outerwear mfg	3	4	3	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	48	14	911	20 058	763	1 327	12 940	38 801	68 929	107 235	2 045
3219	Other wood product mfg	2	43	12	f	D	D	D	D	D	D	D	1 500
32199	All other wood product mfg	1	13	5	267	7 451	203	402	3 686	10 807	6 451	17 481	599
321999	All other miscellaneous wood product mfg ..	1	12	5	e	D	D	D	D	D	D	D	599
322	Paper mfg	-	49	36	5 142	165 157	4 042	8 144	112 532	348 998	579 254	938 692	30 943
3222	Converted paper product mfg	-	48	35	i	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	25	21	2 242	81 368	1 726	3 710	55 118	148 392	307 708	466 702	D
322211	Corrugated & solid fiber box mfg	-	14	11	1 233	42 310	914	1 927	26 840	63 261	176 538	249 166	7 779
322212	Folding paperboard box mfg	-	5	5	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	2	11	7	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	7	5	1	e	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	-	5	5	840	19 238	698	1 055	12 641	43 617	71 227	114 813	D
32223	Stationery product mfg ..	-	8	5	g	D	D	D	D	D	D	D	D
322232	Envelope mfg	-	4	4	f	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg ..	-	2	1	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	9	4	2	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ..	9	4	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	396	83	10 685	331 522	7 796	15 160	211 838	681 554	537 312	1 216 030	52 447
3231	Printing & related support activities	1	396	83	10 685	331 522	7 796	15 160	211 838	681 554	537 312	1 216 030	52 447
32311	Printing	2	343	72	10 044	309 545	7 327	14 333	197 562	642 614	527 969	1 167 934	49 898
323110	Commercial lithographic printing ..	1	169	42	4 302	150 443	3 250	6 450	95 850	305 189	232 437	535 143	25 882
323112	Commercial flexographic printing ..	-	16	8	880	25 390	586	1 555	15 694	55 222	91 743	145 487	4 640
323113	Commercial screen printing	4	38	7	1 719	51 658	1 289	2 698	27 291	100 245	79 255	179 924	6 994
323114	Quick printing	1	62	4	840	22 008	634	1 144	17 021	58 869	22 673	81 310	2 995
323116	Manifold business form printing	-	11	4	1 417	34 870	921	1 437	25 814	63 650	73 851	138 662	4 202
323117	Book printing	-	7	3	355	7 513	258	342	5 449	23 739	7 902	31 736	2 985
323119	Other commercial printing	6	30	1	263	7 161	188	329	3 966	14 569	10 177	24 514	1 498
32312	Support activities for printing	-	53	11	641	21 977	469	827	14 276	38 940	9 343	48 096	2 549
323122	Prepress services	-	40	8	485	18 369	330	584	11 482	33 155	8 448	41 443	1 582
324	Petroleum & coal products mfg	3	18	5	367	13 521	202	459	6 792	30 789	67 623	97 947	D
3241	Petroleum & coal products mfg	3	18	5	367	13 521	202	459	6 792	30 789	67 623	97 947	D
325	Chemical mfg	-	114	56	7 623	317 106	3 986	8 579	139 728	2 894 046	1 599 414	4 447 170	105 039
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	-	8	3	g	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	5	2	g	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	-	5	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	KANSAS CITY, MO—KS MSA—Con.												
	Manufacturing—Con.												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg	—	24	13	2 477	101 052	1 048	2 113	34 614	1 788 903	449 879	2 180 531	17 638
32541	Pharmaceutical & medicine mfg	—	24	13	2 477	101 052	1 048	2 113	34 614	1 788 903	449 879	2 180 531	17 638
325412	Pharmaceutical preparation mfg	—	13	7	1 767	77 723	701	1 419	25 968	1 715 938	414 195	2 073 251	D
325413	In-vitro diagnostic substance mfg	—	2	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	26	11	1 407	44 773	947	2 074	24 239	126 899	117 453	247 135	8 876
32551	Paint & coating mfg	1	13	3	321	11 407	173	343	5 936	38 487	30 232	69 099	1 092
325510	Paint & coating mfg	1	13	3	321	11 407	173	343	5 936	38 487	30 232	69 099	1 092
32552	Adhesive mfg	2	13	8	1 086	33 366	774	1 731	18 303	88 412	87 221	178 036	7 784
325520	Adhesive mfg	2	13	8	1 086	33 366	774	1 731	18 303	88 412	87 221	178 036	7 784
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	22	11	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	—	20	10	g	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	—	11	4	f	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg ..	—	7	4	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	21	11	937	33 683	502	966	15 883	94 987	94 172	189 403	D
32591	Printing ink mfg	1	13	7	e	D	D	D	D	D	D	D	D
325910	Printing ink mfg	1	13	7	e	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	2	8	4	e	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg	—	2	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	3	119	70	6 502	164 355	4 922	9 691	114 410	528 926	597 153	1 123 827	64 179
3261	Plastics product mfg	4	99	61	5 943	148 593	4 517	8 861	104 740	473 715	557 197	1 030 798	62 902
32611	Unsupported plastics film, sheet, & bag mfg ..	1	8	6	382	13 631	278	587	6 321	50 003	37 786	87 483	1 830
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	9	7	4	616	18 180	515	1 146	14 456	116 613	240 645	353 123	21 602
326121	Unsupported plastics profile shape mfg	9	5	3	f	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	—	7	5	624	19 056	540	1 154	14 860	59 961	45 477	104 865	4 236
326160	Plastics bottle mfg	—	7	5	624	19 056	540	1 154	14 860	59 961	45 477	104 865	4 236
32619	Other plastics product mfg	1	66	41	3 887	86 398	2 834	5 286	61 605	211 999	193 251	410 105	32 249
326199	All other plastics product mfg	1	64	41	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	1	20	9	559	15 762	405	830	9 670	55 211	39 956	93 029	1 277
327	Nonmetallic mineral product mfg	1	111	48	3 452	121 174	2 788	5 685	92 672	414 121	260 561	677 068	106 285
3272	Glass & glass product mfg ..	—	19	3	453	16 045	374	800	12 258	63 606	35 800	99 154	D
32721	Glass & glass product mfg	—	19	3	453	16 045	374	800	12 258	63 606	35 800	99 154	D
327211	Flat glass mfg	—	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	3	70	38	1 910	57 619	1 477	3 022	41 351	135 969	149 564	285 294	D
32732	Ready-mix concrete mfg ..	4	42	25	1 147	35 458	904	1 770	26 342	76 826	101 795	178 888	9 182
327320	Ready-mix concrete mfg	4	42	25	1 147	35 458	904	1 770	26 342	76 826	101 795	178 888	9 182
32739	Other concrete product mfg	3	17	7	428	10 623	324	655	7 191	23 443	15 816	39 225	D
327390	Other concrete product mfg	3	17	7	428	10 623	324	655	7 191	23 443	15 816	39 225	D
3279	Other nonmetallic mineral product mfg	—	14	6	1 034	46 645	889	1 808	38 481	212 094	74 109	289 100	D
32799	All other nonmetallic mineral product mfg ..	—	13	5	g	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	—	4	3	904	43 289	788	1 614	36 389	203 569	65 711	272 096	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	KANSAS CITY, MO—KS MSA—Con.													
	Manufacturing—Con.													
331	Primary metal mfg	—	35	12	g	D	D	D	D	D	D	D	14 836	
3311	Iron & steel mills & ferroalloy mfg	—	2	1	f	D	D	D	D	D	D	D	D	
33111	Iron & steel mills & ferroalloy mfg	—	2	1	f	D	D	D	D	D	D	D	D	
331111	Iron & steel mills	—	2	1	f	D	D	D	D	D	D	D	D	
3312	Steel product mfg from purchased steel	—	6	4	e	D	D	D	D	D	D	D	D	
33122	Rolling & drawing of purchased steel	—	4	3	e	D	D	D	D	D	D	D	D	
331222	Steel wire drawing	—	3	3	e	D	D	D	D	D	D	D	D	
3315	Foundries	1	25	6	f	D	D	D	D	D	D	D	2 757	
33151	Ferrous metal foundries	—	10	4	e	D	D	D	D	D	D	D	2 193	
332	Fabricated metal product mfg	1	330	116		14 152	521 741	8 872	16 768	268 053	1 240 895	650 417	1 867 814	49 148
3321	Forging & stamping	1	12	8		403	12 191	269	549	7 473	48 070	72 871	113 389	2 298
33211	Forging & stamping	1	12	8		403	12 191	269	549	7 473	48 070	72 871	113 389	2 298
3322	Cutlery & handtool mfg	1	11	6		468	12 559	335	648	7 971	43 091	29 433	71 961	1 220
33221	Cutlery & handtool mfg	1	11	6		468	12 559	335	648	7 971	43 091	29 433	71 961	1 220
332212	Hand & edge tool mfg	1	10	5	e		D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	75	37		3 406	100 043	2 404	4 648	57 257	239 250	230 144	458 267	12 376
33231	Plate work & fabricated structural product mfg	—	27	15		1 513	46 000	1 047	2 006	24 918	126 695	119 579	235 930	4 758
332312	Fabricated structural metal mfg	—	22	12		1 192	34 244	839	1 610	19 066	101 055	102 939	199 225	3 930
33232	Ornamental & architectural metal products mfg	—	48	22		1 893	54 043	1 357	2 642	32 339	112 555	110 565	222 337	7 618
332321	Metal window & door mfg	—	8	4		374	9 762	275	486	5 503	24 545	37 644	61 222	1 616
332322	Sheet metal work mfg	—	26	11		697	25 004	515	1 033	15 356	49 558	41 855	92 247	4 233
332323	Ornamental & architectural metal work mfg	1	14	7		822	19 277	567	1 123	11 480	38 452	31 066	68 868	1 769
3324	Boiler, tank, & shipping container mfg	2	17	9		999	37 736	713	1 291	23 818	103 457	171 262	274 013	6 723
33242	Metal tank (heavy gauge) mfg	—	4	2	e		D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	—	4	2	e		D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	2	10	7		635	24 413	513	917	18 207	77 654	147 105	224 609	5 839
332431	Metal can mfg	2	4	3	e		D	D	D	D	D	D	D	D
332439	Other metal container mfg	1	6	4	e		D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	126	22		1 506	48 395	1 185	2 269	33 487	88 172	37 802	123 553	12 867
33271	Machine shops	2	109	17		1 099	35 733	885	1 673	23 984	63 090	25 401	86 457	4 524
332710	Machine shops	2	109	17		1 099	35 733	885	1 673	23 984	63 090	25 401	86 457	4 524
33272	Turned product & screw, nut, & bolt mfg	1	17	5		407	12 662	300	596	9 503	25 082	12 401	37 096	8 343
332721	Precision turned product mfg	—	11	4		316	9 788	238	484	7 519	21 409	7 868	28 891	7 912
3328	Coating, engraving, heat treating, & allied activities	1	42	13		1 107	30 581	923	1 785	25 057	85 368	17 437	102 889	6 813
33281	Coating, engraving, heat treating, & allied activities	1	42	13		1 107	30 581	923	1 785	25 057	85 368	17 437	102 889	6 813
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	18	5		619	19 112	532	1 003	17 209	58 863	9 258	68 165	D
332813	Electroplating, plating, polishing, anodizing, & coloring	1	22	6	e		D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	1	34	17		6 015	273 234	2 866	5 213	108 931	618 716	80 695	698 199	5 944
33291	Metal valve mfg	6	11	4		560	21 348	302	574	8 019	74 611	23 998	98 106	2 429
332919	Other metal valve & pipe fitting mfg	9	3	1	e		D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	23	13		5 455	251 886	2 564	4 639	100 912	544 105	56 697	600 093	3 515
332992	Small arms ammunition mfg	—	1	1	g		D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	—	1	1	h		D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	1	10	6		424	13 331	298	553	7 490	26 996	23 921	50 609	1 631

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]

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	KANSAS CITY, MO—KS MSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	1	189	73	7 699	273 838	4 865	9 339	135 095	564 329	655 629	1 220 761	37 590
3331	Agriculture, construction, & mining machinery mfg.	—	19	11	1 584	60 007	1 055	2 106	33 746	107 953	213 518	324 697	6 921
33311	Agricultural implement mfg.	—	7	5	1 123	42 286	775	1 594	24 225	67 143	146 965	217 920	D
333111	Farm machinery & equipment mfg.	—	5	4	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.	1	10	6	e	D	D	D	D	D	D	D	1 952
333120	Construction machinery mfg.	1	10	6	e	D	D	D	D	D	D	D	1 952
3332	Industrial machinery mfg. ..	—	39	13	739	26 299	412	785	11 315	48 037	45 323	89 638	D
33329	Other industrial machinery mfg.	—	31	10	600	21 324	341	636	9 317	37 365	39 368	72 777	D
333294	Food product machinery mfg.	—	11	6	401	14 535	216	399	5 391	25 221	31 105	51 981	D
3333	Commercial & service industry machinery mfg. ..	—	17	10	476	15 241	321	637	6 465	27 221	29 590	57 577	1 854
33331	Commercial & service industry machinery mfg.	—	17	10	476	15 241	321	637	6 465	27 221	29 590	57 577	1 854
333319	Other commercial & service industry machinery mfg.	—	10	4	e	D	D	D	D	D	D	D	783
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.	—	12	6	687	17 154	503	852	11 468	78 799	78 315	157 202	3 261
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	—	12	6	687	17 154	503	852	11 468	78 799	78 315	157 202	3 261
333412	Industrial & commercial fan & blower mfg.	1	4	2	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.	—	5	4	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.	2	42	11	1 073	42 284	756	1 573	26 340	78 158	29 087	105 176	6 462
33351	Metalworking machinery mfg.	2	42	11	1 073	42 284	756	1 573	26 340	78 158	29 087	105 176	6 462
333511	Industrial mold mfg.	—	15	4	487	21 443	356	793	13 900	38 721	9 222	47 776	3 120
333514	Special die & tool, die set, jig, & fixture mfg.	2	19	4	276	10 232	225	475	7 713	15 262	9 628	24 017	2 205
3336	Engine, turbine, & power transmission equipment mfg.	8	5	2	362	5 547	286	243	3 495	10 999	13 469	24 635	D
33361	Engine, turbine, & power transmission equipment mfg.	8	5	2	362	5 547	286	243	3 495	10 999	13 469	24 635	D
333618	Other engine equipment mfg.	9	2	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.	1	55	20	2 778	107 306	1 532	3 143	42 266	213 162	246 327	461 836	16 254
33391	Pump & compressor mfg.	—	5	2	403	10 776	176	373	4 886	16 557	28 627	44 366	D
333911	Pump & pumping equipment mfg.	—	3	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.	1	23	12	1 663	70 433	952	1 993	26 782	135 775	172 914	311 233	D
333921	Elevator & moving stairway mfg.	—	1	1	e	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg.	1	17	8	1 010	53 477	530	1 131	18 193	110 293	137 754	246 840	2 967
333924	Industrial truck, tractor, trailer, & stacker machinery mfg.	1	5	3	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.	3	27	6	712	26 097	404	777	10 598	60 830	44 786	106 237	11 145
334	Computer & electronic product mfg.	—	88	36	6 131	195 807	2 711	5 554	62 251	659 440	344 025	997 544	56 526
3342	Communications equipment mfg.	—	9	3	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg.	—	5	1	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg.	—	5	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)				
31-33	KANSAS CITY, MO—KS MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	2	36	16	1 319	32 408	767	1 474	14 351	77 727	41 640	118 768	5 322
33441	Semiconductor & other electronic component mfg	2	36	16	1 319	32 408	767	1 474	14 351	77 727	41 640	118 768	5 322
334413	Semiconductor & related device mfg ...	4	6	3	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	3	17	6	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	21	11	h	D	D	D	D	D	D	D	24 582
33451	Navigational, measuring, medical, & control instruments mfg	—	21	11	h	D	D	D	D	D	D	D	24 582
334511	Search, detection, navigation, & guidance instrument mfg	—	3	3	g	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	2	6	4	e	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	—	9	2	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	—	9	2	f	D	D	D	D	D	D	D	D
334611	Software reproducing .	—	3	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	40	15	2 321	76 394	1 675	3 254	48 878	214 956	139 313	353 786	10 714
3351	Electric lighting equipment mfg	5	6	4	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	5	6	4	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	7	16	2	e	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	7	16	2	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	18	9	1 539	57 250	1 145	2 344	39 942	183 217	87 986	270 962	8 465
33591	Battery mfg	—	4	3	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg ...	—	4	3	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	—	6	3	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	—	5	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	77	28	11 531	596 851	10 208	21 054	506 311	4 987 761	7 913 999	12 903 058	146 831
3361	Motor vehicle mfg	—	3	2	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	2	2	i	D	D	D	D	D	D	D	D
336111	Automobile mfg	—	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	—	1	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	2	45	14	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	1	13	3	f	D	D	D	D	D	D	D	3 180
336321	Vehicular lighting equipment mfg	—	1	1	e	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	9	4	1	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	9	4	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	—	2	2	e	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	—	2	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	5	7	5	600	18 513	486	905	11 678	33 229	46 889	80 429	5 738
336399	All other motor vehicle parts mfg	5	7	5	600	18 513	486	905	11 678	33 229	46 889	80 429	5 738
3365	Railroad rolling stock mfg ..	—	3	3	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	3	3	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	3	3	e	D	D	D	D	D	D	D	D

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31-33	KANSAS CITY, MO—KS MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	1	139	31	2 657	66 161	2 038	3 658	41 678	126 324	105 624	231 020	7 957
3371	Household & institutional furniture & kitchen cabinet mfg	1	100	17	1 706	41 580	1 324	2 418	27 525	64 778	56 998	121 030	2 682
33711	Wood kitchen cabinet & counter top mfg	1	68	11	1 070	26 325	854	1 578	18 355	40 941	25 599	66 384	1 031
337110	Wood kitchen cabinet & counter top mfg ...	1	68	11	1 070	26 325	854	1 578	18 355	40 941	25 599	66 384	1 031
33712	Household & institutional furniture mfg	1	32	6	636	15 255	470	840	9 170	23 837	31 399	54 646	1 651
337127	Institutional furniture mfg	-	6	5	411	10 723	282	486	5 822	13 825	22 467	35 822	1 093
3372	Office furniture (including fixtures) mfg	2	31	11	655	15 963	484	815	9 053	34 191	24 083	58 305	D
33721	Office furniture (including fixtures) mfg	2	31	11	655	15 963	484	815	9 053	34 191	24 083	58 305	D
337212	Custom architectural woodwork & millwork mfg	-	10	4	254	6 241	201	326	3 741	13 342	10 136	23 602	D
337215	Showcase, partition, shelving, & locker mfg	5	16	5	268	6 274	196	311	3 554	11 102	7 603	18 664	414
3379	Other furniture related product mfg	-	8	3	296	8 618	230	425	5 100	27 355	24 543	51 685	D
339	Miscellaneous mfg	2	184	45	3 708	96 600	2 629	4 654	53 657	213 311	142 948	356 837	D
3391	Medical equipment & supplies mfg	2	77	20	1 483	38 883	1 039	1 737	21 366	102 163	44 466	146 562	D
33911	Medical equipment & supplies mfg	2	77	20	1 483	38 883	1 039	1 737	21 366	102 163	44 466	146 562	D
339113	Surgical appliance & supplies mfg	1	11	6	397	9 010	289	488	4 595	35 371	20 229	55 316	D
339116	Dental laboratories ...	3	47	9	593	14 333	468	731	10 469	34 193	8 070	42 510	D
3399	Other miscellaneous mfg ...	2	107	25	2 225	57 717	1 590	2 917	32 291	111 148	98 482	210 275	D
33995	Sign mfg	-	34	9	747	24 248	467	1 004	11 659	36 112	36 112	77 929	1 953
339950	Sign mfg	-	34	9	747	24 248	467	1 004	11 659	36 112	36 112	77 929	1 953
33999	All other miscellaneous mfg	2	32	10	1 061	24 100	801	1 378	14 576	48 336	46 355	95 166	4 244
339999	All other miscellaneous mfg	3	22	7	831	17 571	620	1 009	10 443	33 781	27 917	61 514	D
	ST. JOSEPH, MO MSA												
31-33	Manufacturing	-	103	49	7 382	235 422	5 701	11 158	159 263	861 057	1 442 985	2 295 288	81 086
311	Food mfg	-	10	8	1 587	60 908	1 251	2 793	42 761	367 621	819 913	1 190 126	35 612
3111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
31111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
311111	Dog & cat food mfg ...	-	1	1	e	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	3	3	884	37 738	725	1 711	28 044	230 257	623 042	856 011	D
31121	Flour milling & malt mfg .	-	1	1	f	D	D	D	D	D	D	D	D
311211	Flour milling	-	1	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	2	1	e	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing	-	1	1	e	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing	-	1	1	e	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing	-	1	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
3222	Converted paper product mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
32221	Paperboard container mfg	-	3	3	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	2	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	12	7	781	30 031	503	893	13 383	129 121	130 025	265 903	11 175
3254	Pharmaceutical & medicine mfg	-	6	2	410	18 739	284	437	8 347	46 502	35 174	84 719	D
32541	Pharmaceutical & medicine mfg	-	6	2	410	18 739	284	437	8 347	46 502	35 174	84 719	D
325414	Biological product (except diagnostic) mfg	-	1	1	e	D	D	D	D	D	D	D	D

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ST. JOSEPH, MO MSA														
—Con.														
31-33	Manufacturing—Con.													
331	Primary metal mfg	—	2	2	f	D	D	D	D	D	D	D	D	
3312	Steel product mfg from purchased steel	—	2	2	f	D	D	D	D	D	D	D	D	
33122	Rolling & drawing of purchased steel	—	2	2	f	D	D	D	D	D	D	D	D	
331222	Steel wire drawing	—	2	2	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	—	14	6		519	17 878	388	790	12 703	39 716	71 021	113 225	3 260
333	Machinery mfg	—	8	6		825	19 708	606	1 151	13 010	120 415	93 445	213 074	8 377
3331	Agriculture, construction, & mining machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
33591	Battery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
335911	Storage battery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
ST. LOUIS, MO—IL MSA														
31-33	Manufacturing	—	3 320	1 132		170 766	6 590 408	115 500	235 281	3 823 497	21 018 794	28 104 319	51 488 137	1 429 995
	St. Louis, MO—IL MSA (IL Part)	—	495	146		27 487	1 023 352	20 910	43 836	700 665	3 525 644	6 147 590	9 646 771	265 987
	St. Louis, MO—IL MSA (MO Part)	—	2 825	986		143 279	5 567 056	94 590	191 445	3 122 832	17 493 150	21 956 729	41 841 366	1 164 008
311	Food mfg	1	210	73		9 139	256 713	5 999	12 083	146 624	1 149 597	1 458 904	2 613 825	45 645
3111	Animal food mfg	—	8	2		580	16 620	351	738	9 091	236 013	220 020	461 636	D
31111	Animal food mfg	—	8	2		580	16 620	351	738	9 091	236 013	220 020	461 636	D
311119	Other animal food mfg	—	8	2		580	16 620	351	738	9 091	236 013	220 020	461 636	D
3112	Grain & oilseed milling	1	9	7	e	D	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	—	19	6		1 050	28 504	838	1 553	18 468	156 796	92 622	248 492	4 776
31134	Nonchocolate confectionery mfg	—	12	3	f	D	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg	—	12	3	f	D	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	3	16	4	e	D	D	D	D	D	D	D	D	1 188
31141	Frozen food mfg	3	10	4	e	D	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	3	10	4	e	D	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	16	8		917	31 857	658	1 419	19 344	92 524	289 960	386 258	7 062
31151	Dairy product (except frozen) mfg	—	11	7	f	D	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	—	7	4		551	19 696	357	833	9 927	62 735	198 532	261 355	D
3116	Meat product mfg	1	35	8	f	D	D	D	D	D	D	D	D	3 659
31161	Animal slaughtering & processing	1	35	8	f	D	D	D	D	D	D	D	D	3 659
311612	Meat processed from carcasses	—	14	5		541	14 501	445	858	8 967	47 240	94 709	141 539	2 362
3118	Bakeries & tortilla mfg	1	83	24		3 915	99 088	2 185	4 512	52 537	286 672	248 052	535 698	10 744
31181	Bread & bakery product mfg	1	76	19		2 436	60 053	1 364	2 481	31 902	184 893	76 718	261 757	6 039
311811	Retail bakeries	5	50	8	f	D	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	24	9		1 700	49 427	952	1 811	25 782	167 190	58 229	225 489	D
31182	Cookie, cracker, & pasta mfg	1	7	5		1 479	39 035	821	2 031	20 635	101 779	171 334	273 941	4 705
311821	Cookie & cracker mfg	—	2	2	e	D	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	8	3	2	f	D	D	D	D	D	D	D	D	D
311823	Dry pasta mfg	—	2	1	e	D	D	D	D	D	D	D	D	D
3119	Other food mfg	1	24	14		1 190	37 493	771	1 580	18 527	219 516	171 005	386 867	8 504
31194	Seasoning & dressing mfg	—	6	3	e	D	D	D	D	D	D	D	D	D
31199	All other food mfg	—	7	5		378	10 446	287	543	5 737	85 053	47 447	132 112	D
311999	All other miscellaneous food mfg	—	5	3	e	D	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)				
	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
312	Beverage & tobacco product mfg	—	22	10	3 531	185 365	2 574	5 294	126 325	1 217 069	808 218	2 022 998	171 981
3121	Beverage mfg	—	22	10	3 531	185 365	2 574	5 294	126 325	1 217 069	808 218	2 022 998	171 981
31211	Soft drink & ice mfg	1	13	7	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	1	7	6	g	D	D	D	D	D	D	D	D
31212	Breweries	—	3	2	g	D	D	D	D	D	D	D	D
312120	Breweries	—	3	2	g	D	D	D	D	D	D	D	D
313	Textile mills	5	17	7	505	12 947	393	776	8 328	33 333	35 359	68 320	D
3133	Textile & fabric finishing & fabric coating mills	6	13	4	e	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	9	9	2	e	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	9	8	2	e	D	D	D	D	D	D	D	1 357
314	Textile product mills	2	76	16	1 466	29 819	1 076	1 980	16 684	55 038	58 636	115 799	D
3141	Textile furnishings mills	3	37	5	641	12 256	400	760	5 608	21 359	30 811	54 111	D
31412	Curtain & linen mills	3	36	5	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	3	9	4	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	1	39	11	825	17 563	676	1 220	11 076	33 679	27 825	61 688	D
31491	Textile bag & canvas mills	—	19	5	451	9 710	367	609	5 969	17 073	13 598	30 709	D
314912	Canvas & related product mills	—	16	4	e	D	D	D	D	D	D	D	D
31499	All other textile product mills	1	20	6	374	7 853	309	611	5 107	16 606	14 227	30 979	D
314999	All other miscellaneous textile product mills	1	20	6	374	7 853	309	611	5 107	16 606	14 227	30 979	D
315	Apparel mfg	3	63	16	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	4	29	5	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	9	16	1	e	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors	9	15	1	e	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	1	6	2	326	5 749	294	454	4 808	10 930	10 599	22 294	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	2	1	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	2	33	11	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	2	33	11	f	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	3	10	7	449	7 069	398	708	4 968	12 158	7 633	20 028	374
316	Leather & allied product mfg	1	21	10	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	—	4	2	e	D	D	D	D	D	D	D	D
31621	Footwear mfg	—	4	2	e	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg	—	1	1	e	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	3	14	6	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	3	14	6	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	83	16	1 110	27 340	870	1 620	18 454	64 024	85 476	149 006	D
3212	Veneer, plywood, & engineered wood product mfg	1	14	6	448	12 864	338	677	7 830	35 177	39 689	74 790	D
32121	Veneer, plywood, & engineered wood product mfg	1	14	6	448	12 864	338	677	7 830	35 177	39 689	74 790	D
321214	Truss mfg	1	10	5	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg	1	58	7	481	9 917	381	661	7 543	18 914	24 974	43 803	D
322	Paper mfg	—	76	53	4 966	164 444	3 906	8 584	110 941	453 574	639 380	1 093 683	24 513
3221	Pulp, paper, & paperboard mills	—	1	1	e	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	1	1	e	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	1	1	e	D	D	D	D	D	D	D	D

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)				
	ST. LOUIS, MO—IL MSA —Con.												
31-33	Manufacturing— Con.												
322	Paper mfg—Con.												
3222	Converted paper product mfg	—	75	52	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	41	31	2 271	77 990	1 717	3 620	47 965	163 556	289 855	456 170	15 475
322211	Corrugated & solid fiber box mfg	1	26	24	1 639	55 297	1 200	2 435	31 254	114 291	224 704	338 574	D
322212	Folding paperboard box mfg	—	11	4	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	14	8	g	D	D	D	D	D	D	D	D
322221	Coated & laminated packaging paper & plastics film mfg	—	3	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	14	9	1 280	41 773	1 064	2 609	31 981	164 457	165 253	328 608	4 227
322231	Die-cut paper & paperboard office supplies mfg	—	5	3	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	7	6	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	559	123	10 959	371 566	7 718	14 697	221 656	755 774	521 214	1 273 989	57 366
3231	Printing & related support activities	1	559	123	10 959	371 566	7 718	14 697	221 656	755 774	521 214	1 273 989	57 366
32311	Printing	1	486	97	9 291	310 094	6 446	12 209	182 519	634 461	493 724	1 125 040	50 580
323110	Commercial lithographic printing ..	2	229	55	4 885	184 269	3 306	6 255	105 984	333 804	250 036	582 217	24 456
323111	Commercial gravure printing	1	12	3	743	26 950	585	1 236	18 603	69 771	65 990	135 247	7 849
323112	Commercial flexographic printing ..	—	20	7	479	15 073	312	606	7 507	32 777	41 724	74 700	2 559
323113	Commercial screen printing	—	46	8	619	14 979	472	933	9 767	40 697	30 173	67 882	2 061
323114	Quick printing	2	100	6	616	14 168	457	715	8 853	34 749	18 801	53 480	5 328
323116	Manifold business form printing	1	14	7	616	21 722	341	764	11 563	45 909	33 560	80 729	4 154
323118	Blankbook, looseleaf binder, & device mfg ..	—	7	3	824	18 713	637	1 069	12 358	50 046	31 146	81 612	D
323119	Other commercial printing	8	51	5	302	7 046	218	361	4 205	14 092	10 862	25 159	1 080
32312	Support activities for printing	2	73	26	1 668	61 472	1 272	2 488	39 137	121 313	27 490	148 949	6 786
323121	Tradebinding & related work	1	16	5	255	7 563	211	373	4 383	13 270	2 289	15 516	769
323122	Prepress services	2	57	21	1 413	53 909	1 061	2 115	34 754	108 043	25 201	133 433	6 017
324	Petroleum & coal products mfg	—	31	8	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	31	8	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	4	3	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	4	3	g	D	D	D	D	D	D	D	D
32419	Other petroleum & coal products mfg	1	10	4	e	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil & grease mfg	1	10	4	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	212	95	12 530	511 735	7 278	14 956	263 162	3 154 044	2 051 132	5 207 282	183 116
3251	Basic chemical mfg	—	36	15	1 925	97 032	1 356	2 944	67 584	383 839	334 704	709 649	42 637
32513	Dye & pigment mfg	—	4	3	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg	—	2	2	e	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg	—	2	1	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	10	6	456	22 448	314	656	15 452	87 464	85 095	171 732	D
325188	All other basic inorganic chemical mfg	—	9	5	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	11	4	f	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg	—	1	1	e	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	3	12	6	674	25 099	331	708	8 556	168 608	178 291	350 326	12 087
32532	Pesticide & other agricultural chemical mfg	3	8	4	513	17 291	233	482	4 871	146 331	143 471	293 490	8 061
325320	Pesticide & other agricultural chemical mfg	3	8	4	513	17 291	233	482	4 871	146 331	143 471	293 490	8 061

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg	—	35	17	4 581	182 056	2 218	4 550	78 235	932 949	369 436	1 316 859	69 354
32541	Pharmaceutical & medicine mfg	—	35	17	4 581	182 056	2 218	4 550	78 235	932 949	369 436	1 316 859	69 354
325411	Medicinal & botanical mfg	—	4	3	h	D	D	D	D	D	D	D	51 711
325412	Pharmaceutical preparation mfg	—	18	11	1 433	57 331	818	1 534	26 529	416 166	120 757	533 742	14 030
325414	Biological product (except diagnostic) mfg	8	9	3	e	D	D	D	D	D	D	D	3 502
3255	Paint, coating, & adhesive mfg	2	44	17	g	D	D	D	D	D	D	D	8 161
32551	Paint & coating mfg	2	38	15	1 111	45 931	535	953	14 264	238 137	212 222	448 804	7 678
325510	Paint & coating mfg ...	2	38	15	1 111	45 931	535	953	14 264	238 137	212 222	448 804	7 678
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	46	20	2 678	96 817	1 918	3 946	63 223	1 199 459	525 217	1 719 157	D
32561	Soap & cleaning compound mfg	—	37	15	2 224	82 188	1 652	3 374	55 876	1 161 820	456 152	1 613 397	32 616
325611	Soap & other detergent mfg	—	21	8	1 119	45 912	823	1 621	30 351	856 616	334 918	1 187 388	15 623
325612	Polish & other sanitation good mfg ..	1	16	7	1 105	36 276	829	1 753	25 525	305 204	121 234	426 009	16 993
32562	Toilet preparation mfg ...	2	9	5	454	14 629	266	572	7 347	37 639	69 065	105 760	D
325620	Toilet preparation mfg .	2	9	5	454	14 629	266	572	7 347	37 639	69 065	105 760	D
3259	Other chemical product mfg	—	35	17	1 296	54 190	757	1 480	25 254	195 762	369 433	564 919	12 562
32599	All other chemical product & preparation mfg	—	25	13	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg	—	3	3	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg	—	16	7	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	178	92	9 501	268 376	7 507	13 971	162 381	734 942	649 007	1 375 010	73 042
3261	Plastics product mfg	2	141	77	7 540	218 025	6 058	11 188	131 670	617 949	538 788	1 147 562	65 976
32611	Unsupported plastics film, sheet, & bag mfg ..	3	16	8	1 040	38 003	832	1 895	23 773	90 587	92 636	184 899	9 307
326111	Unsupported plastics bag mfg	5	4	3	e	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	10	4	e	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	4	9	6	320	12 462	243	506	7 482	29 671	24 851	54 516	2 922
326121	Unsupported plastics profile shape mfg	4	8	5	e	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	—	9	8	645	18 375	579	1 100	14 958	54 957	44 541	99 698	9 304
326160	Plastics bottle mfg	—	9	8	645	18 375	579	1 100	14 958	54 957	44 541	99 698	9 304
32619	Other plastics product mfg	—	89	46	4 989	129 964	4 001	6 897	72 764	374 501	279 255	643 022	39 195
326199	All other plastics product mfg	—	78	44	4 877	126 863	3 914	6 698	70 572	368 791	275 332	633 371	39 021
3262	Rubber product mfg	—	37	15	1 961	50 351	1 449	2 783	30 711	116 993	110 219	227 448	7 066
32621	Tire mfg	—	11	6	608	15 046	445	845	9 233	28 576	35 971	64 860	1 147
326211	Tire mfg (except retreading)	—	1	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	—	22	9	1 323	34 260	981	1 901	21 030	86 039	70 857	156 817	5 748
326291	Rubber product mfg for mechanical use	—	6	2	419	10 899	347	635	8 270	29 987	20 916	50 788	D
326299	All other rubber product mfg	—	16	7	904	23 361	634	1 266	12 760	56 052	49 941	106 029	D
327	Nonmetallic mineral product mfg	1	143	54	3 428	114 683	2 541	5 063	76 710	334 303	314 695	649 867	55 899
3272	Glass & glass product mfg .	—	16	4	519	18 228	408	814	13 675	73 895	37 790	110 623	D
32721	Glass & glass product mfg	—	16	4	519	18 228	408	814	13 675	73 895	37 790	110 623	D
327213	Glass container mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	14	3	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ST. LOUIS, MO-IL MSA—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg	1	94	38	2 145	71 968	1 611	3 224	49 291	197 595	216 565	415 554	22 927
32732	Ready-mix concrete mfg.	1	57	29	1 406	45 494	1 105	2 171	32 554	100 744	132 961	234 390	14 545
327320	Ready-mix concrete mfg	1	57	29	1 406	45 494	1 105	2 171	32 554	100 744	132 961	234 390	14 545
32739	Other concrete product mfg	2	26	4	329	8 928	229	446	6 425	19 381	16 171	35 581	3 768
327390	Other concrete product mfg	2	26	4	329	8 928	229	446	6 425	19 381	16 171	35 581	3 768
3279	Other nonmetallic mineral product mfg	2	20	6	489	15 660	350	707	9 643	47 582	46 684	94 656	D
32799	All other nonmetallic mineral product mfg	3	19	5	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	54	36	12 466	497 822	10 078	21 212	370 373	1 402 763	2 103 348	3 492 037	74 361
3311	Iron & steel mills & ferroalloy mfg	—	2	2	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	2	2	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	2	2	h	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	5	4	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	—	2	2	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	2	2	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	—	1	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	11	7	4 124	173 508	3 174	7 162	119 742	494 202	962 640	1 454 640	29 909
33141	Nonferrous metal (except aluminum) smelting & refining	—	4	3	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	—	4	3	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying	—	3	3	3 014	132 116	2 370	5 549	93 388	388 235	716 109	1 104 168	15 818
331421	Copper rolling, drawing, & extruding	—	2	2	h	D	D	D	D	D	D	D	D
3315	Foundries	—	34	21	3 340	102 992	2 831	5 648	78 970	245 781	139 662	378 493	16 231
33151	Ferrous metal foundries	—	15	9	1 568	49 452	1 338	2 732	39 559	106 224	60 782	165 193	6 828
331511	Iron foundries	2	8	5	e	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	6	3	1 137	36 932	971	1 930	29 935	84 575	47 985	130 855	4 428
33152	Nonferrous metal foundries	—	19	12	1 772	53 540	1 493	2 916	39 411	139 557	78 880	213 300	9 403
331521	Aluminum die-casting foundries	1	5	5	617	17 209	512	984	12 642	30 984	28 482	59 165	D
331524	Aluminum foundries (except die-casting)	—	7	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	555	176	17 489	585 146	13 168	26 531	375 387	1 364 809	1 085 963	2 458 277	77 909
3321	Forging & stamping	—	36	13	1 021	36 323	759	1 610	23 612	73 551	55 604	129 532	6 296
33211	Forging & stamping	—	36	13	1 021	36 323	759	1 610	23 612	73 551	55 604	129 532	6 296
332116	Metal stamping	—	28	12	921	32 748	675	1 434	21 107	67 234	50 763	118 458	5 830
3322	Cutlery & handtool mfg	—	21	10	1 091	35 620	791	1 631	22 095	64 128	34 877	105 390	4 918
33221	Cutlery & handtool mfg	—	21	10	1 091	35 620	791	1 631	22 095	64 128	34 877	105 390	4 918
332212	Hand & edge tool mfg	1	18	7	f	D	D	D	D	D	D	D	D
332213	Saw blade & handsaw mfg	—	3	3	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	103	38	4 149	132 635	2 959	5 985	75 708	402 710	301 602	704 628	9 412
33231	Plate work & fabricated structural product mfg	—	44	23	2 897	92 483	2 116	4 318	53 368	317 895	231 981	550 914	6 995
332311	Prefabricated metal building & component mfg	—	6	5	394	11 510	266	526	6 050	78 987	30 702	113 916	467
332312	Fabricated structural metal mfg	—	29	12	2 211	70 703	1 624	3 294	40 850	221 173	189 494	407 609	5 028
332313	Plate work mfg	1	9	6	292	10 270	226	498	6 468	17 735	11 785	29 389	1 500
33232	Ornamental & architectural metal products mfg	1	59	15	1 252	40 152	843	1 667	22 340	84 815	69 621	153 714	2 417
332321	Metal window & door mfg	—	12	4	348	10 444	231	458	5 859	24 081	21 497	45 496	470
332322	Sheet metal work mfg	1	31	10	739	24 624	507	1 017	13 755	48 996	37 641	86 363	1 684

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg	—	21	9	1 393	58 369	990	2 059	37 981	107 745	180 851	296 527	8 346
33241	Power boiler & heat exchanger mfg	—	6	2	f	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	—	6	2	f	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	11	5	549	23 235	420	886	17 107	43 787	131 358	179 636	D
332431	Metal can mfg	—	3	3	e	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	1	21	7	383	9 834	298	554	6 588	20 824	23 791	44 469	843
33261	Spring & wire product mfg	1	21	7	383	9 834	298	554	6 588	20 824	23 791	44 469	843
332618	Other fabricated wire product mfg	1	16	6	314	7 854	248	466	5 328	16 186	20 460	36 613	561
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	212	50	3 233	108 040	2 588	5 107	76 400	214 537	126 687	339 452	15 198
33271	Machine shops	1	162	28	1 753	61 311	1 366	2 625	43 256	114 760	52 372	167 187	7 823
332710	Machine shops	1	162	28	1 753	61 311	1 366	2 625	43 256	114 760	52 372	167 187	7 823
33272	Turned product & screw, nut, & bolt mfg	—	50	22	1 480	46 729	1 222	2 482	33 144	99 777	74 315	172 265	7 375
332721	Precision turned product mfg	1	38	13	1 128	33 910	945	1 919	24 849	75 150	59 351	133 248	D
332722	Bolt, nut, screw, rivet, & washer mfg	—	12	9	352	12 819	277	563	8 295	24 627	14 964	39 017	D
3328	Coating, engraving, heat treating, & allied activities .	1	74	23	1 486	50 361	1 115	2 257	31 583	123 631	57 877	179 898	7 441
33281	Coating, engraving, heat treating, & allied activities	1	74	23	1 486	50 361	1 115	2 257	31 583	123 631	57 877	179 898	7 441
332812	Metal coating/ engraving (exc jewelry/silverware)/ allied services	1	22	7	578	24 184	415	806	14 216	64 583	42 229	105 060	4 437
332813	Electroplating, plating, polishing, anodizing, & coloring	2	45	11	672	17 509	511	996	10 647	32 493	11 566	44 292	1 897
3329	Other fabricated metal product mfg	—	58	22	4 553	149 093	3 523	7 082	98 273	348 489	297 991	642 489	25 022
33291	Metal valve mfg	—	15	10	2 093	61 200	1 625	2 936	36 612	163 878	133 121	300 117	11 335
332911	Industrial valve mfg ...	—	8	5	g	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	—	4	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	43	12	2 460	87 893	1 898	4 146	61 661	184 611	164 870	342 372	13 687
332992	Small arms ammunition mfg	—	1	1	g	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	—	12	2	e	D	D	D	D	D	D	D	1 359
332999	All other miscellaneous fabricated metal product mfg	—	16	6	430	12 267	326	731	8 245	27 160	45 886	72 743	D
333	Machinery mfg	—	272	110	16 166	571 290	11 000	22 220	327 257	1 585 910	1 188 013	2 767 815	77 021
3331	Agriculture, construction, & mining machinery mfg	2	17	8	f	D	D	D	D	D	D	D	1 744
33313	Mining & oil & gas field machinery mfg	2	7	6	413	16 118	251	544	8 098	37 994	33 869	70 561	D
333131	Mining machinery & equipment mfg	3	6	5	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	—	35	15	g	D	D	D	D	D	D	D	6 790
33329	Other industrial machinery mfg	—	31	14	1 761	71 545	1 201	2 444	43 688	292 112	192 417	482 648	D
333293	Printing machinery & equipment mfg	—	7	5	637	25 046	362	799	12 416	58 531	38 233	94 319	1 682
333298	All other industrial machinery mfg	—	17	7	952	39 093	719	1 395	26 819	218 820	145 734	365 116	D
3333	Commercial & service industry machinery mfg ..	—	29	11	1 898	61 826	1 062	2 080	25 745	250 342	185 528	435 691	9 029
33331	Commercial & service industry machinery mfg	—	29	11	1 898	61 826	1 062	2 080	25 745	250 342	185 528	435 691	9 029
333311	Automatic vending machine mfg	—	3	2	f	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg	1	19	8	f	D	D	D	D	D	D	D	D

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	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	17	11	4 639	135 868	3 490	6 821	93 351	379 610	374 285	760 516	19 511
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	17	11	4 639	135 868	3 490	6 821	93 351	379 610	374 285	760 516	19 511
333414	Heating equipment (except warm air furnaces) mfg	-	5	2	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial industrial refig equip mfg	-	9	8	h	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	102	30	2 807	116 160	2 028	4 289	78 292	247 955	146 285	381 287	20 907
33351	Metalworking machinery mfg	-	102	30	2 807	116 160	2 028	4 289	78 292	247 955	146 285	381 287	20 907
333511	Industrial mold mfg ...	-	25	9	695	31 967	530	1 148	24 053	65 386	19 261	84 546	3 233
333514	Special die & tool, die set, jig, & fixture mfg .	-	48	11	874	31 363	692	1 368	21 845	60 739	48 251	109 839	D
333515	Cutting tool & machine tool accessory mfg ..	-	20	4	920	38 200	598	1 301	23 088	74 104	27 306	98 288	D
3336	Engine, turbine, & power transmission equipment mfg	1	13	6	612	18 793	473	1 067	12 972	54 194	45 696	100 501	3 215
33361	Engine, turbine, & power transmission equipment mfg	1	13	6	612	18 793	473	1 067	12 972	54 194	45 696	100 501	3 215
333612	Speed changer, industrial high-speed drive, & gear mfg	1	6	4	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	59	29	3 766	142 983	2 292	4 577	60 635	307 418	196 471	507 488	15 825
33391	Pump & compressor mfg	-	7	4	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	1	13	6	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	39	19	3 076	120 720	1 843	3 783	49 121	250 452	150 785	404 321	13 691
333993	Packaging machinery mfg	-	8	5	g	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg ...	1	7	5	920	26 803	657	1 350	13 236	55 964	19 093	75 328	1 681
333999	All other miscellaneous general-purpose machinery mfg	-	17	7	952	42 203	617	1 247	19 554	66 761	36 253	105 300	6 782
334	Computer & electronic product mfg	-	102	39	6 641	245 384	3 987	7 519	104 645	1 352 382	348 051	1 711 632	79 514
3341	Computer & peripheral equipment mfg	2	16	5	255	8 386	91	199	3 214	22 223	39 502	61 967	1 262
33411	Computer & peripheral equipment mfg	2	16	5	255	8 386	91	199	3 214	22 223	39 502	61 967	1 262
3343	Audio & video equipment mfg	-	3	2	e	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	3	2	e	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	3	2	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	29	15	2 870	91 266	2 313	4 356	61 988	1 008 481	149 883	1 152 787	D
33441	Semiconductor & other electronic component mfg	-	29	15	2 870	91 266	2 313	4 356	61 988	1 008 481	149 883	1 152 787	D
334412	Bare printed circuit board mfg	1	5	3	e	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	7	1	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	1	6	6	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	8	4	e	D	D	D	D	D	D	D	1 565
3345	Navigational, measuring, medical, & control instruments mfg	-	33	13	2 923	130 253	1 230	2 351	33 799	295 693	126 525	438 849	10 686

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg—Con.												
33451	Navigational, measuring, medical, & control instruments mfg	-	33	13	2 923	130 253	1 230	2 351	33 799	295 693	126 525	438 849	10 686
334510	Electromedical & electrotherapeutic apparatus mfg	-	5	3	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	3	2	f	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	-	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	66	37	5 101	168 404	3 754	7 104	97 533	408 635	296 764	706 920	43 359
3351	Electric lighting equipment mfg	-	10	7	647	26 287	553	1 348	22 505	127 246	45 413	172 805	D
33511	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	9	6	e	D	D	D	D	D	D	D	453
3352	Household appliance mfg ..	-	5	2	e	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	3	2	e	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	3	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	1	32	20	2 903	91 700	2 020	3 416	44 298	159 476	159 077	320 222	14 883
33531	Electrical equipment mfg	1	32	20	2 903	91 700	2 020	3 416	44 298	159 476	159 077	320 222	14 883
335311	Power, distribution, & specialty transformer mfg	-	5	4	e	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	4	6	4	g	D	D	D	D	D	D	D	6 510
335313	Switchgear & switchboard apparatus mfg	-	8	4	413	15 024	322	631	10 035	31 344	36 869	68 351	D
335314	Relay & industrial control mfg	1	13	8	960	30 402	520	677	7 087	51 781	29 401	83 305	D
3359	Other electrical equipment & component mfg	-	19	8	g	D	D	D	D	D	D	D	24 778
33593	Wiring device mfg	-	9	6	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	5	3	e	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	105	50	40 751	2 114 650	23 361	50 328	1 141 660	5 256 567	13 063 607	20 693 642	296 945
3361	Motor vehicle mfg	-	9	4	13 337	831 171	12 458	26 655	750 427	4 485 529	9 484 211	13 939 590	D
33611	Automobile & light duty motor vehicle mfg	-	9	4	13 337	831 171	12 458	26 655	750 427	4 485 529	9 484 211	13 939 590	D
336112	Light truck & utility vehicle mfg	-	6	4	j	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	1	18	5	394	11 861	305	651	7 917	16 963	31 343	47 941	D
33621	Motor vehicle body & trailer mfg	1	18	5	394	11 861	305	651	7 917	16 963	31 343	47 941	D
3363	Motor vehicle parts mfg ...	-	49	24	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	1	11	1	316	11 473	280	572	9 676	18 831	18 634	36 918	598
336311	Carburetor, piston, piston ring, & valve mfg	-	2	1	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	7	3	e	D	D	D	D	D	D	D	2 488
336321	Vehicular lighting equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	2	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	2	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	4	4	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	-	4	4	g	D	D	D	D	D	D	D	D

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	ST. LOUIS, MO-IL MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33637	Motor vehicle metal stamping	-	5	5	f	D	D	D	D	D	D	D	2 598
336370	Motor vehicle metal stamping	-	5	5	f	D	D	D	D	D	D	D	2 598
33639	Other motor vehicle parts mfg	1	12	7	1 413	38 597	1 185	2 683	30 328	88 517	115 878	205 577	D
336399	All other motor vehicle parts mfg	1	12	7	1 413	38 597	1 185	2 683	30 328	88 517	115 878	205 577	D
3364	Aerospace product & parts mfg	-	17	12	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	17	12	j	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	3	2	j	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	13	9	g	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	6	1	272	8 332	230	497	6 312	14 832	9 799	24 709	D
33661	Ship & boat building	-	6	1	272	8 332	230	497	6 312	14 832	9 799	24 709	D
336611	Ship building & repairing	-	4	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	145	40	3 867	108 992	3 011	6 114	69 006	237 251	203 514	453 149	8 519
3371	Household & institutional furniture & kitchen cabinet mfg	3	93	19	2 103	58 328	1 623	3 353	38 151	145 744	107 824	254 573	5 498
33711	Wood kitchen cabinet & counter top mfg	1	64	5	522	14 912	406	767	10 924	28 427	19 993	48 428	1 860
337110	Wood kitchen cabinet & counter top mfg ...	1	64	5	522	14 912	406	767	10 924	28 427	19 993	48 428	1 860
33712	Household & institutional furniture mfg	3	29	14	1 581	43 416	1 217	2 586	27 227	117 317	87 831	206 145	3 638
337122	Nonupholstered wood household furniture mfg	9	9	1	e	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	15	12	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	43	19	1 579	44 727	1 268	2 523	28 166	73 617	80 495	165 329	2 622
33721	Office furniture (including fixtures) mfg	-	43	19	1 579	44 727	1 268	2 523	28 166	73 617	80 495	165 329	2 622
337215	Showcase, partition, shelving, & locker mfg	-	25	10	1 089	28 654	888	1 846	17 274	56 656	59 791	117 705	2 088
339	Miscellaneous mfg	1	330	71	6 681	196 396	3 971	7 619	88 526	490 449	304 260	791 516	23 523
3391	Medical equipment & supplies mfg	1	172	28	3 404	114 133	1 986	4 113	49 659	321 528	163 679	485 015	14 454
33911	Medical equipment & supplies mfg	1	172	28	3 404	114 133	1 986	4 113	49 659	321 528	163 679	485 015	14 454
339112	Surgical & medical instrument mfg	-	24	12	2 017	76 120	994	2 313	27 342	214 734	118 925	333 488	10 039
339113	Surgical appliance & supplies mfg	1	14	4	517	16 206	378	824	9 760	45 103	23 048	68 874	2 302
339116	Dental laboratories ...	6	114	7	588	13 293	442	617	8 610	28 470	11 041	40 238	879
3399	Other miscellaneous mfg ...	1	158	43	3 277	82 263	1 985	3 506	38 867	168 921	140 581	306 501	9 069
33992	Sporting & athletic goods mfg	-	16	7	457	10 844	333	511	6 183	45 023	23 749	66 786	1 682
339920	Sporting & athletic goods mfg	-	16	7	457	10 844	333	511	6 183	45 023	23 749	66 786	1 682
33994	Office supplies (except paper) mfg	-	14	3	467	12 415	96	198	2 193	16 937	43 839	61 135	D
339943	Marking device mfg ...	-	11	2	424	11 749	78	161	1 877	15 520	42 648	58 531	784
33995	Sign mfg	2	72	15	1 449	38 816	896	1 629	19 230	63 374	39 893	102 800	3 411
339950	Sign mfg	2	72	15	1 449	38 816	896	1 629	19 230	63 374	39 893	102 800	3 411
33999	All other miscellaneous mfg	2	37	15	f	D	D	D	D	D	D	D	2 498
339999	All other miscellaneous mfg	2	22	8	431	7 867	332	547	4 855	18 365	10 977	28 533	2 012

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SPRINGFIELD, MO MSA													
31-33	Manufacturing	-	516	147	23 359	593 871	17 462	32 348	380 627	1 907 903	2 280 976	4 169 506	97 302
311	Food mfg	-	35	13	4 134	107 270	3 089	4 968	74 589	722 911	1 055 585	1 765 211	26 173
3115	Dairy product mfg	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
31151	Dairy product (except frozen) mfg	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
311513	Cheese mfg	-	2	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	7	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	7	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	10	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	10	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	3	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	6	1	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	-	5	1	e	D	D	D	D	D	D	D	D
315	Apparel mfg	-	9	7	910	12 720	842	1 629	10 675	22 630	21 844	42 514	645
3152	Cut & sew apparel mfg	-	8	7	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	5	5	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	3	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	28	7	593	10 168	433	723	6 532	24 399	38 125	61 476	D
3219	Other wood product mfg ...	1	23	5	473	7 299	346	562	4 872	14 750	23 425	37 710	679
322	Paper mfg	-	13	5	1 436	44 780	1 158	2 226	32 517	86 903	86 605	178 865	2 973
3222	Converted paper product mfg	-	13	5	1 436	44 780	1 158	2 226	32 517	86 903	86 605	178 865	2 973
32221	Paperboard container mfg	-	5	4	g	D	D	D	D	D	D	D	2 621
322211	Corrugated & solid fiber box mfg	-	4	3	384	13 612	288	599	7 292	25 642	31 191	56 567	D
322215	Nonfolding sanitary food container mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	68	13	934	20 046	642	1 033	10 579	48 428	27 041	76 427	3 353
3231	Printing & related support activities	1	68	13	934	20 046	642	1 033	10 579	48 428	27 041	76 427	3 353
32311	Printing	1	61	13	870	18 850	598	976	9 737	45 477	26 617	73 048	3 142
323110	Commercial lithographic printing ..	1	35	9	437	9 309	331	494	5 365	17 871	10 556	28 506	1 523
325	Chemical mfg	-	19	5	647	22 380	389	813	12 083	183 493	102 681	279 239	7 115
3255	Paint, coating, & adhesive mfg	-	4	2	e	D	D	D	D	D	D	D	D
32552	Adhesive mfg	-	1	1	e	D	D	D	D	D	D	D	D
325520	Adhesive mfg	-	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	25	6	873	21 974	696	1 391	14 376	49 455	85 448	137 738	6 942
3261	Plastics product mfg	2	21	4	e	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	4	2	e	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	2	1	e	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	27	12	723	18 758	431	866	9 928	39 006	31 166	70 131	2 484
3273	Cement & concrete product mfg	1	17	8	525	13 915	291	623	6 948	29 884	25 357	54 986	2 121
332	Fabricated metal product mfg	-	82	24	2 604	82 549	1 788	3 598	46 629	151 796	99 791	245 108	10 818
3323	Architectural & structural metals mfg	-	22	8	754	23 436	545	1 217	13 446	44 505	31 421	75 350	3 183
33231	Plate work & fabricated structural product mfg ...	-	7	3	e	D	D	D	D	D	D	D	D
332313	Plate work mfg	-	3	3	e	D	D	D	D	D	D	D	1 548
33232	Ornamental & architectural metal products mfg	-	15	5	e	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg	-	8	3	254	5 431	213	422	4 083	12 498	8 268	20 617	D
3324	Boiler, tank, & shipping container mfg	-	8	7	g	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	-	6	6	1 069	38 421	684	1 352	19 561	54 136	38 576	91 643	6 199
332420	Metal tank (heavy gauge) mfg	-	6	6	1 069	38 421	684	1 352	19 561	54 136	38 576	91 643	6 199
3329	Other fabricated metal product mfg	-	9	4	282	7 365	225	423	4 958	24 023	17 905	37 103	145

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)				
	SPRINGFIELD, MO MSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	1	36	13	1 788	47 738	1 358	2 490	30 475	99 422	128 981	227 142	6 953
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
333412	Industrial & commercial fan & blower mfg	1	3	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	3	3	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	3	3	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	3	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	13	6	2 623	65 592	1 817	3 624	34 850	136 935	227 971	363 625	D
3343	Audio & video equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	4	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	4	3	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	—	1	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	6	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	3	2	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	3	2	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	39	17	2 921	62 483	2 286	4 229	41 512	146 764	178 526	326 896	8 035
3362	Motor vehicle body & trailer mfg	—	12	7	546	12 321	436	812	8 478	34 783	46 537	82 283	1 024
33621	Motor vehicle body & trailer mfg	—	12	7	546	12 321	436	812	8 478	34 783	46 537	82 283	1 024
336214	Travel trailer & camper mfg	—	3	3	266	6 003	211	412	3 980	19 099	17 595	38 023	771
3363	Motor vehicle parts mfg ...	—	17	6	2 139	45 342	1 660	3 117	29 053	99 555	107 636	207 134	6 182
33633	Motor vehicle steering & suspension component (except spring) mfg	—	3	2	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	—	3	2	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	—	3	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	—	3	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	52	5	608	12 334	473	888	8 674	21 038	29 430	51 304	1 436
3371	Household & institutional furniture & kitchen cabinet mfg	1	43	3	501	9 639	402	745	7 303	15 205	22 297	38 099	781
33712	Household & institutional furniture mfg	—	15	2	360	6 547	295	560	5 457	12 129	14 620	27 111	566
339	Miscellaneous mfg	2	45	6	503	12 201	384	667	7 937	33 050	21 534	54 848	2 046
3399	Other miscellaneous mfg ..	1	30	4	376	8 762	298	526	6 257	24 851	17 456	42 445	D
33999	All other miscellaneous mfg	—	8	3	259	6 471	216	388	4 878	20 196	14 433	34 854	D

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

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)				
ADAIR COUNTY, MO													
31-33	Manufacturing	-	10	5	1 619	39 777	1 392	3 010	31 915	221 671	190 406	412 448	5 563
311	Food mfg	-	2	1	f	D	D	D	D	D	D	D	D
AUDRAIN COUNTY, MO													
31-33	Manufacturing	1	38	23	2 721	79 724	2 258	4 302	61 461	208 230	319 419	531 327	19 155
327	Nonmetallic mineral product mfg	-	8	6	1 248	45 947	1 069	2 057	37 507	104 380	83 314	185 306	5 424
3271	Clay product & refractory mfg	-	4	4	g	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	4	4	g	D	D	D	D	D	D	D	D
327124	Clay refractory mfg ...	-	4	4	g	D	D	D	D	D	D	D	D
BARRY COUNTY, MO													
31-33	Manufacturing	-	61	31	7 537	154 309	5 259	11 884	98 937	486 358	625 910	1 096 248	11 369
311	Food mfg	-	8	7	2 927	40 999	1 867	4 133	33 216	185 376	410 518	581 429	D
3116	Meat product mfg	-	4	3	2 609	31 753	1 589	3 493	25 766	151 798	105 333	256 074	1 555
31161	Animal slaughtering & processing	-	4	3	2 609	31 753	1 589	3 493	25 766	151 798	105 333	256 074	1 555
311615	Poultry processing	-	3	3	h	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	3	2	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	2	2	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	16	10	2 007	51 593	1 230	2 987	24 419	123 395	62 573	184 964	3 708
3323	Architectural & structural metals mfg	-	4	4	1 687	44 199	949	2 430	19 224	108 885	54 641	162 929	D
33232	Ornamental & architectural metal products mfg	-	4	4	1 687	44 199	949	2 430	19 224	108 885	54 641	162 929	D
332321	Metal window & door mfg	-	3	3	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	5	2	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
333412	Industrial & commercial fan & blower mfg	-	1	1	f	D	D	D	D	D	D	D	D
BARTON COUNTY, MO													
31-33	Manufacturing	-	19	4	2 080	52 015	1 829	3 406	43 202	129 462	140 652	269 600	4 235
337	Furniture & related product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	1	1	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BOONE COUNTY, MO													
31-33	Manufacturing	-	87	27	5 703	165 292	4 450	9 064	107 852	855 058	741 758	1 595 030	82 455
311	Food mfg	-	9	3	656	17 676	607	1 317	15 522	165 334	86 954	252 721	D
326	Plastics & rubber products mfg	-	5	3	606	15 833	486	957	10 504	47 582	78 427	126 180	3 146
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	3 146
32619	Other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	7	4	520	13 638	351	694	7 736	31 475	15 680	47 452	740
334	Computer & electronic product mfg	-	4	3	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
334413	Semiconductor & related device mfg	-	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	2	1	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	2	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
3363	Motor vehicle parts mfg	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
BUCHANAN COUNTY, MO													
31-33	Manufacturing	-	96	49	7 365	235 098	5 688	11 137	159 051	860 219	1 442 286	2 293 750	D
311	Food mfg	-	10	8	1 587	60 908	1 251	2 793	42 761	367 621	819 913	1 190 126	35 612
3111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
31111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	3	3	884	37 738	725	1 711	28 044	230 257	623 042	856 011	D
31121	Flour milling & malt mfg	-	1	1	f	D	D	D	D	D	D	D	D
311211	Flour milling	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
3222	Converted paper product mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
32223	Stationery product mfg	-	1	1	f	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	11	7	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
331222	Steel wire drawing	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	13	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	6	825	19 708	606	1 151	13 010	120 415	93 445	213 074	8 377
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33591	Battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BUTLER COUNTY, MO													
31-33	Manufacturing	-	53	13	3 010	66 669	2 673	5 135	53 460	266 372	203 994	494 476	10 200
326	Plastics & rubber products mfg	2	3	3	720	17 259	626	1 283	13 546	44 201	20 066	71 342	2 818
333	Machinery mfg	-	6	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	6	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	6	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	3	1	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
CALLAWAY COUNTY, MO													
31-33	Manufacturing	-	37	15	1 896	59 582	1 489	2 284	41 866	145 786	176 368	320 550	7 268
335	Electrical equipment, appliance, & component mfg	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	1	1	f	D	D	D	D	D	D	D	D
CAMDEN COUNTY, MO													
31-33	Manufacturing	-	53	12	1 269	32 630	1 010	1 812	20 801	69 401	62 925	132 003	2 302
CAPE GIRARDEAU COUNTY, MO													
31-33	Manufacturing	-	93	32	5 912	163 304	4 486	8 687	113 297	878 139	683 438	1 569 711	63 505
315	Apparel mfg	-	2	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
32229	Other converted paper product mfg	-	1	1	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	1	g	D	D	D	D	D	D	D	1 356
3326	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	8	3	f	D	D	D	D	D	D	D	5 312
CASS COUNTY, MO													
31-33	Manufacturing	1	71	14	1 057	24 572	790	1 342	16 225	47 671	69 898	116 617	10 397
CEDAR COUNTY, MO													
31-33	Manufacturing	3	15	5	505	9 886	417	744	7 475	37 488	39 970	76 454	1 140

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	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)				
CHRISTIAN COUNTY, MO													
31-33	Manufacturing	1	101	19	h	D	D	D	D	D	D	8 358	
335	Electrical equipment, appliance, & component mfg	-	3	1	f	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	-	2	1	f	D	D	D	D	D	D	D	
33531	Electrical equipment mfg	-	2	1	f	D	D	D	D	D	D	D	
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	
CLAY COUNTY, MO													
31-33	Manufacturing	-	214	98	14 743	569 637	11 547	22 382	427 091	4 417 931	5 461 820	9 891 738	176 228
311	Food mfg	-	20	8	g	D	D	D	D	D	D	D	
3119	Other food mfg	-	3	2	g	D	D	D	D	D	D	D	
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	
311919	Other snack food mfg ..	-	1	1	g	D	D	D	D	D	D	D	
322	Paper mfg	1	12	9	g	D	D	D	D	D	D	D	
3222	Converted paper product mfg	2	11	8	f	D	D	D	D	D	D	D	
32221	Paperboard container mfg	-	5	4	f	D	D	D	D	D	D	D	
323	Printing & related support activities.....	3	49	14	g	D	D	D	D	D	D	8 210	
3231	Printing & related support activities	3	49	14	g	D	D	D	D	D	D	8 210	
32311	Printing	3	42	13	g	D	D	D	D	D	D	D	
323110	Commercial lithographic printing ..	3	19	8	g	D	D	D	D	D	D	D	
325	Chemical mfg	-	20	8	f	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	2	17	14	f	D	D	D	D	D	D	10 446	
3261	Plastics product mfg	3	14	12	f	D	D	D	D	D	D	D	
32619	Other plastics product mfg	-	12	10	f	D	D	D	D	D	D	D	
326199	All other plastics product mfg	-	12	10	f	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	-	29	16	g	D	D	D	D	D	D	8 971	
336	Transportation equipment mfg	-	6	5	i	D	D	D	D	D	D	D	
3361	Motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	
33611	Automobile & light duty motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	
336112	Light truck & utility vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	
COLE COUNTY, MO													
31-33	Manufacturing	-	53	13	h	D	D	D	D	D	D	D	
323	Printing & related support activities.....	-	11	2	f	D	D	D	D	D	D	D	
3231	Printing & related support activities.....	-	11	2	f	D	D	D	D	D	D	D	
32311	Printing	-	10	2	f	D	D	D	D	D	D	D	
323117	Book printing.....	-	1	1	f	D	D	D	D	D	D	D	
325	Chemical mfg	-	2	1	f	D	D	D	D	D	D	D	
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	1	1	f	D	D	D	D	D	D	D	
32561	Soap & cleaning compound mfg	-	1	1	f	D	D	D	D	D	D	D	
325611	Soap & other detergent mfg	-	1	1	f	D	D	D	D	D	D	D	
COOPER COUNTY, MO													
31-33	Manufacturing	-	16	7	865	19 163	670	1 260	13 164	80 768	58 155	138 610	3 116
CRAWFORD COUNTY, MO *													
31-33	Manufacturing	1	52	16	1 639	33 833	1 214	2 315	20 226	74 734	70 327	142 941	9 563
315	Apparel mfg	-	2	2	f	D	D	D	D	D	D	D	
3159	Apparel accessories & other apparel mfg	-	2	2	f	D	D	D	D	D	D	D	
31599	Apparel accessories & other apparel mfg	-	2	2	f	D	D	D	D	D	D	D	
315991	Hat, cap, & millinery mfg	-	2	2	f	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)				
DALLAS COUNTY, MO													
31-33	Manufacturing	-	11	3	530	8 662	489	945	7 751	18 005	22 134	40 228	1 062
DENT COUNTY, MO													
31-33	Manufacturing	-	27	8	951	17 346	841	1 510	13 119	22 869	59 638	84 297	3 241
DUNKLIN COUNTY, MO													
31-33	Manufacturing	-	26	8	1 281	28 459	1 084	2 211	21 479	135 631	117 943	259 720	3 813
FRANKLIN COUNTY, MO													
31-33	Manufacturing	-	210	84	10 641	284 438	8 557	16 311	201 261	952 798	893 049	1 836 298	47 247
322	Paper mfg	-	5	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	5	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	16	4	850	18 491	655	1 101	12 225	49 960	30 736	81 298	925
3231	Printing & related support activities	-	16	4	850	18 491	655	1 101	12 225	49 960	30 736	81 298	925
32311	Printing	-	16	4	850	18 491	655	1 101	12 225	49 960	30 736	81 298	925
323118	Blankbook, looseleaf binder, & device mfg .	-	4	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	13	8	1 062	25 533	846	1 673	17 568	65 761	53 331	119 605	D
3262	Rubber product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	51	17	1 917	51 788	1 519	2 756	34 919	175 525	117 374	293 361	11 010
3329	Other fabricated metal product mfg	-	6	4	g	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	4	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	18	10	1 289	40 206	1 035	2 163	28 651	95 174	67 422	158 672	4 014
336	Transportation equipment mfg	-	16	8	g	D	D	D	D	D	D	D	3 400
3363	Motor vehicle parts mfg . . .	-	7	4	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	13	5	608	17 058	431	834	9 079	33 597	28 594	61 138	1 362
339	Miscellaneous mfg	-	22	7	686	14 482	493	814	7 686	21 175	14 558	35 989	1 274
3399	Other miscellaneous mfg ..	-	17	7	667	14 011	477	791	7 476	20 420	14 327	34 893	1 256
GASCONADE COUNTY, MO													
31-33	Manufacturing	1	38	17	1 643	41 927	1 300	2 132	22 349	75 606	83 263	161 804	14 580
323	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	6	3	f	D	D	D	D	D	D	D	D
32311	Printing	-	4	2	f	D	D	D	D	D	D	D	D
323117	Book printing	-	2	2	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)				
GREENE COUNTY, MO													
31-33	Manufacturing	-	371	115	19 475	513 053	14 253	26 210	321 449	1 722 106	2 085 913	3 788 558	84 541
311	Food mfg	-	28	13	h	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
31151	Dairy product (except frozen) mfg	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
311513	Cheese mfg	-	2	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	10	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	10	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	18	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	12	5	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	12	5	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	4	4	g	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	56	8	686	14 986	477	762	7 867	36 928	19 675	57 560	2 405
3231	Printing & related support activities	1	56	8	686	14 986	477	762	7 867	36 928	19 675	57 560	2 405
32311	Printing	1	50	8	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	13	4	f	D	D	D	D	D	D	D	6 745
326	Plastics & rubber products mfg	-	11	3	529	13 731	408	854	9 166	32 786	69 147	104 593	D
327	Nonmetallic mineral product mfg	1	19	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	62	18	g	D	D	D	D	D	D	D	9 110
3323	Architectural & structural metals mfg	-	15	5	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	-	7	7	g	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	-	6	6	1 069	38 421	684	1 352	19 561	54 136	38 576	91 643	6 199
332420	Metal tank (heavy gauge) mfg	-	6	6	1 069	38 421	684	1 352	19 561	54 136	38 576	91 643	6 199
333	Machinery mfg	1	25	11	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
333412	Industrial & commercial fan & blower mfg	1	3	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	10	6	h	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	4	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	4	3	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	-	1	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector 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)				
GREENE COUNTY, MO													
—Con.													
31-33	Manufacturing—												
	Con.												
335	Electrical equipment, appliance, & component mfg	—	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	29	12	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	15	5	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	—	3	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	—	3	1	g	D	D	D	D	D	D	D	D
GRUNDY COUNTY, MO													
31-33	Manufacturing	1	11	4	798	20 724	669	1 262	16 031	173 604	69 244	242 376	5 186
311	Food mfg	—	4	1	f	D	D	D	D	D	D	D	D
HENRY COUNTY, MO													
31-33	Manufacturing	—	32	10	1 780	32 974	1 430	2 598	22 955	103 829	280 461	390 130	6 290
333	Machinery mfg	—	2	1	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
333414	Heating equipment (except warm air furnaces) mfg	—	1	1	f	D	D	D	D	D	D	D	D
HOWELL COUNTY, MO													
31-33	Manufacturing	—	70	25	3 690	72 524	2 888	5 637	52 585	238 056	241 262	485 616	9 719
321	Wood product mfg	1	22	9	851	17 796	746	1 438	14 241	55 461	61 142	115 682	1 785
3219	Other wood product mfg ...	—	12	6	711	15 391	625	1 232	12 413	47 963	50 781	97 823	1 120
32191	Millwork	—	6	4	544	12 836	486	952	10 608	37 398	42 822	79 739	D
333	Machinery mfg	—	8	3	884	20 338	611	950	11 028	56 007	59 037	125 517	D
3339	Other general-purpose machinery mfg	—	2	1	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	—	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
	JACKSON COUNTY, MO												
31-33	Manufacturing	1	907	287	38 785	1 301 457	24 744	47 972	695 327	5 394 934	3 656 425	8 984 696	229 206
311	Food mfg	1	53	21	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	19	5	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	16	3	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	5	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg	3	10	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	19	15	h	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	19	15	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	11	9	g	D	D	D	D	D	D	D	7 588
32222	Paper bag & coated & treated paper mfg	-	3	2	f	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	-	2	2	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	155	26	h	D	D	D	D	D	D	D	10 530
3231	Printing & related support activities	1	155	26	h	D	D	D	D	D	D	D	10 530
32311	Printing	1	129	21	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	1	67	14	g	D	D	D	D	D	D	D	6 126
323114	Quick printing	1	26	3	651	17 060	511	940	14 081	48 674	16 728	65 209	D
325	Chemical mfg	-	41	18	h	D	D	D	D	D	D	D	52 907
3253	Pesticide, fertilizer, & other agricultural chemical mfg	-	4	2	g	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	7	4	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	7	4	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	6	3	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	5	9	3	557	17 882	386	796	9 553	39 874	52 394	92 805	4 189
32552	Adhesive mfg	4	3	3	539	17 050	376	777	9 198	36 955	48 483	85 871	D
325520	Adhesive mfg	4	3	3	539	17 050	376	777	9 198	36 955	48 483	85 871	D
326	Plastics & rubber products mfg	1	47	24	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	1	40	21	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	29	17	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	28	17	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	47	16	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	3	31	15	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	20	7	g	D	D	D	D	D	D	D	9 281
3311	Iron & steel mills & ferroalloy mfg	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	160	53	i	D	D	D	D	D	D	D	23 839
3323	Architectural & structural metals mfg	-	37	16	g	D	D	D	D	D	D	D	5 813
33231	Plate work & fabricated structural product mfg	-	11	5	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	10	4	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	26	11	g	D	D	D	D	D	D	D	D
332323	Ornamental & architectural metal work mfg	1	9	5	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	62	12	f	D	D	D	D	D	D	D	7 927

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	JACKSON COUNTY, MO—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	2	30	9	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities.....	2	30	9	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg.....	1	16	10	5 577	259 975	2 570	4 669	101 534	577 271	66 368	642 412	4 180
33299	All other fabricated metal product mfg.....	—	14	9	i	D	D	D	D	D	D	D	D
332992	Small arms ammunition mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg.....	—	1	1	h	D	D	D	D	D	D	D	D
333	Machinery mfg.....	1	83	27	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	—	6	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.....	—	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	2	27	7	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg.....	2	27	7	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	2	18	6	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	2	9	6	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	26	13	h	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg.....	—	2	1	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg.....	—	2	1	g	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media.	—	5	2	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.....	—	5	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	5	12	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	3	38	13	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg....	4	28	7	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg.....	—	9	3	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	58	12	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg.....	—	33	6	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg.....	—	19	3	533	14 438	400	800	9 526	22 039	12 544	34 478	D
337110	Wood kitchen cabinet & counter top mfg....	—	19	3	533	14 438	400	800	9 526	22 039	12 544	34 478	D
339	Miscellaneous mfg.....	2	69	21	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	1	31	10	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	1	31	10	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	2	38	11	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg.....	1	13	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)				
JASPER COUNTY, MO													
31-33	Manufacturing	—	198	78	11 904	289 805	9 293	20 220	207 040	903 117	1 244 671	2 154 593	96 398
311	Food mfg	—	19	11	h	D	D	D	D	D	D	D	50 342
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
311513	Cheese mfg	—	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	—	1	1	g	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg	2	5	3	f	D	D	D	D	D	D	D	D
324122	Asphalt shingle & coating materials mfg	2	5	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	8	5	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	—	4	3	f	D	D	D	D	D	D	D	D
32592	Explosives mfg	—	4	3	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	—	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	43	13	1 792	42 953	1 343	2 798	32 851	96 897	89 035	191 005	8 908
3326	Spring & wire product mfg	—	3	3	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	—	3	3	f	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	21	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	3	3	3	f	D	D	D	D	D	D	D	1 582
335	Electrical equipment, appliance, & component mfg	—	5	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	2	1	f	D	D	D	D	D	D	D	D
33591	Battery mfg	—	1	1	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	8	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	—	5	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	—	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	16	9	f	D	D	D	D	D	D	D	D
JEFFERSON COUNTY, MO													
31-33	Manufacturing	1	182	45	5 304	168 185	4 018	7 951	112 184	558 252	643 912	1 199 342	64 920
326	Plastics & rubber products mfg	6	17	10	805	25 454	626	1 320	16 934	75 217	88 300	162 891	D
3261	Plastics product mfg	6	14	9	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	3	10	7	658	18 629	514	1 085	11 133	42 279	38 814	80 764	D
326199	All other plastics product mfg	3	10	7	658	18 629	514	1 085	11 133	42 279	38 814	80 764	D
327	Nonmetallic mineral product mfg	—	8	3	544	21 307	403	788	14 838	99 506	77 699	176 926	32 201
331	Primary metal mfg	—	6	4	982	35 377	767	1 554	24 457	75 355	167 965	241 454	D
3314	Nonferrous metal (except aluminum) production & processing	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	40	6	564	21 452	453	850	15 859	46 428	125 973	173 612	4 831
333	Machinery mfg	—	19	5	663	16 361	453	950	10 284	124 570	65 805	187 654	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JOHNSON COUNTY, MO													
31-33	Manufacturing	-	31	8	1 856	46 673	1 431	2 201	25 188	105 051	82 184	183 250	11 881
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
LACLEDE COUNTY, MO													
31-33	Manufacturing	-	57	22	5 177	130 350	4 142	8 772	85 629	352 899	462 792	809 731	46 032
315	Apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	6	4	g	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 refrig equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	3	894	17 980	777	1 709	11 421	45 317	54 523	99 291	D
3353	Electrical equipment mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	12	7	g	D	D	D	D	D	D	D	3 090
3366	Ship & boat building	-	6	5	g	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	6	5	g	D	D	D	D	D	D	D	D
336612	Boat building	-	6	5	g	D	D	D	D	D	D	D	D
LAFAYETTE COUNTY, MO													
31-33	Manufacturing	-	42	13	1 166	22 884	960	1 706	16 045	44 605	87 711	130 358	4 365
LAWRENCE COUNTY, MO													
31-33	Manufacturing	-	54	24	1 614	34 817	1 247	2 349	25 742	112 250	143 514	258 953	11 838
LINCOLN COUNTY, MO													
31-33	Manufacturing	1	43	10	1 078	29 047	848	1 610	19 420	100 185	81 840	176 793	10 329
LINN COUNTY, MO													
31-33	Manufacturing	-	24	10	1 739	45 041	1 240	2 781	25 233	92 536	46 507	137 818	4 255
323	Printing & related support activities	-	4	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	4	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	3	1	f	D	D	D	D	D	D	D	D
323117	Book printing	-	1	1	f	D	D	D	D	D	D	D	D
LIVINGSTON COUNTY, MO													
31-33	Manufacturing	-	28	12	903	23 646	762	1 441	18 175	70 925	47 716	117 056	3 222

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MCDONALD COUNTY, MO													
31-33	Manufacturing	-	34	11	3 052	52 475	2 674	5 330	40 708	182 494	287 228	469 773	20 687
311	Food mfg	-	5	4	g	D	D	D	D	D	D	D	D
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	-	2	2	g	D	D	D	D	D	D	D	D
MACON COUNTY, MO													
31-33	Manufacturing	-	15	4	g	D	D	D	D	D	D	D	2 240
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg	-	1	1	f	D	D	D	D	D	D	D	D
MADISON COUNTY, MO													
31-33	Manufacturing	2	16	4	553	8 349	459	777	6 005	18 645	10 379	28 681	835
MARION COUNTY, MO													
31-33	Manufacturing	-	46	19	3 179	87 482	2 343	4 348	55 403	1 382 343	325 319	1 707 067	42 986
325	Chemical mfg	-	5	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	2	505	12 393	288	504	5 828	34 162	13 143	46 690	1 137
336	Transportation equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
MILLER COUNTY, MO													
31-33	Manufacturing	-	29	10	1 500	31 841	1 218	2 086	22 816	66 354	64 040	128 505	3 059
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
MISSISSIPPI COUNTY, MO													
31-33	Manufacturing	1	14	6	571	10 722	473	865	7 553	34 014	28 165	66 405	2 691
MONITEAU COUNTY, MO													
31-33	Manufacturing	4	22	6	1 095	19 458	932	1 612	14 723	114 683	58 799	173 831	3 828
311	Food mfg	3	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	3	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	3	2	2	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
MONROE COUNTY, MO													
31-33	Manufacturing	-	7	3	1 047	27 901	811	1 392	25 635	45 486	27 743	74 772	6 059
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	-	1	1	f	D	D	D	D	D	D	D	D
MONTGOMERY COUNTY, MO													
31-33	Manufacturing	1	32	12	811	16 569	601	1 137	10 337	37 182	44 645	82 085	1 346

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MORGAN COUNTY, MO													
31-33	Manufacturing	-	29	5	649	12 028	574	1 043	9 129	65 354	38 361	115 004	1 882
NEW MADRID COUNTY, MO													
31-33	Manufacturing	-	17	6	2 504	83 424	2 074	4 051	61 857	267 177	265 822	529 847	23 821
326	Plastics & rubber products mfg	-	2	1	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	1	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	1	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	g	D	D	D	D	D	D	D	D
NEWTON COUNTY, MO													
31-33	Manufacturing	-	63	17	4 315	109 816	3 696	7 907	91 691	288 879	392 821	692 853	32 106
332	Fabricated metal product mfg	-	19	3	997	26 551	858	1 799	22 611	57 896	51 311	106 957	6 679
3326	Spring & wire product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	2	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	3	2	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	2	1	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
NODAWAY COUNTY, MO													
31-33	Manufacturing	-	23	9	1 677	48 247	1 328	2 551	34 359	366 670	286 975	647 209	21 672
335	Electrical equipment, appliance, & component mfg	-	5	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	5	2	f	D	D	D	D	D	D	D	D
33591	Battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
OSAGE COUNTY, MO													
31-33	Manufacturing	-	24	6	914	20 332	786	1 374	12 665	58 266	110 644	169 810	2 167
PEMISCOT COUNTY, MO													
31-33	Manufacturing	-	12	5	893	19 819	825	1 406	14 427	48 041	83 468	131 113	1 539

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PERRY COUNTY, MO													
31-33	Manufacturing	-	31	16	2 855	61 920	2 298	4 653	41 609	288 380	317 197	609 297	12 094
311	Food mfg	-	3	3	f	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	2	2	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	2	2	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
PETTIS COUNTY, MO													
31-33	Manufacturing	-	69	24	5 324	130 245	4 650	8 841	102 031	438 427	522 703	958 901	44 697
311	Food mfg	-	7	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	13	3	718	21 356	611	1 178	17 402	59 332	45 131	106 186	D
3321	Forging & stamping	-	2	1	f	D	D	D	D	D	D	D	D
33211	Forging & stamping	-	2	1	f	D	D	D	D	D	D	D	D
332116	Metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	5	3	687	13 916	556	781	10 149	45 580	72 936	119 459	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
PHELPS COUNTY, MO													
31-33	Manufacturing	1	55	9	1 132	29 567	833	1 592	17 612	106 538	113 610	218 220	24 486
PIKE COUNTY, MO													
31-33	Manufacturing	-	27	7	771	25 673	544	1 133	16 717	127 578	150 957	277 426	9 059
PLATTE COUNTY, MO													
31-33	Manufacturing	-	47	21	1 599	52 421	1 093	1 992	28 379	104 821	238 520	344 713	5 864
POLK COUNTY, MO													
31-33	Manufacturing	1	34	9	859	13 924	636	1 006	8 245	47 663	33 171	81 121	678
PULASKI COUNTY, MO													
31-33	Manufacturing	1	18	3	682	9 415	582	847	7 030	17 618	19 177	36 444	1 682
315	Apparel mfg	-	3	2	f	D	D	D	D	D	D	D	D
RALLS COUNTY, MO													
31-33	Manufacturing	-	10	6	913	21 573	762	1 541	16 956	161 556	92 799	253 918	D
RANDOLPH COUNTY, MO													
31-33	Manufacturing	2	37	11	1 381	30 513	1 170	1 956	21 617	82 467	101 462	182 560	7 563
336	Transportation equipment mfg	2	8	7	1 030	23 691	903	1 537	17 375	67 457	81 305	147 325	D
3363	Motor vehicle parts mfg ...	2	7	6	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	3	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	3	2	f	D	D	D	D	D	D	D	D
RAY COUNTY, MO													
31-33	Manufacturing	1	21	4	654	16 536	511	1 095	9 736	39 185	22 867	63 939	3 740

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

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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)				
31-33	REYNOLDS COUNTY, MO												
	Manufacturing	6	33	8	634	10 944	541	1 036	8 460	23 401	29 309	52 728	D
31-33	RIPLEY COUNTY, MO												
	Manufacturing	9	42	5	629	10 031	545	941	8 207	24 131	19 408	42 800	2 048
31-33	ST. CHARLES COUNTY, MO												
	Manufacturing	—	279	84	12 160	431 886	9 801	19 591	317 546	2 094 472	2 345 038	4 432 880	140 275
323	Printing & related support activities.....	2	36	8	f	D	D	D	D	D	D	D	2 563
3231	Printing & related support activities.....	2	36	8	f	D	D	D	D	D	D	D	2 563
326	Plastics & rubber products mfg.....	—	22	11	1 426	39 999	1 096	1 898	24 956	120 548	76 905	198 351	17 387
3261	Plastics product mfg.....	—	17	10	1 381	39 084	1 069	1 848	24 401	118 305	75 428	194 618	17 286
32619	Other plastics product mfg.....	—	10	5	758	17 520	561	824	8 410	54 766	23 067	78 582	D
326199	All other plastics product mfg.....	—	7	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	40	10	779	23 575	604	1 253	15 793	48 633	47 712	97 196	3 024
333	Machinery mfg.....	—	27	8	911	26 910	726	1 468	19 195	62 859	44 429	108 863	3 859
334	Computer & electronic product mfg.....	—	9	4	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	—	7	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	—	7	3	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg.....	—	4	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	15	7	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg.....	—	2	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg.....	—	2	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg.....	—	2	1	h	D	D	D	D	D	D	D	D
31-33	STE. GENEVIEVE COUNTY, MO												
	Manufacturing	—	32	11	1 752	47 762	1 438	2 915	35 259	130 203	81 551	208 232	16 842
327	Nonmetallic mineral product mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
3274	Lime & gypsum product mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
32741	Lime mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
327410	Lime mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
31-33	ST. FRANCOIS COUNTY, MO												
	Manufacturing	2	66	22	3 797	80 263	2 963	5 610	53 611	224 573	174 548	394 619	13 289
327	Nonmetallic mineral product mfg.....	—	7	2	653	17 768	541	1 055	13 672	44 420	13 871	57 962	792
3272	Glass & glass product mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	1	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts 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)				
	ST. LOUIS COUNTY, MO												
31-33	Manufacturing	-	1 272	434	78 218	3 359 780	46 676	95 016	1 712 870	8 581 756	14 372 482	25 347 905	529 369
311	Food mfg.	-	67	24	3 576	91 610	2 225	4 213	50 703	453 467	421 336	887 914	13 738
3118	Bakeries & tortilla mfg.	4	39	14	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.	3	34	11	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.	4	5	3	f	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour.	8	3	2	f	D	D	D	D	D	D	D	D
322	Paper mfg.	-	33	20	1 780	61 364	1 410	2 965	40 669	143 489	224 009	366 619	7 403
3222	Converted paper product mfg.	-	33	20	1 780	61 364	1 410	2 965	40 669	143 489	224 009	366 619	7 403
32221	Paperboard container mfg.	-	18	14	g	D	D	D	D	D	D	D	4 939
322211	Corrugated & solid fiber box mfg.	-	11	10	732	26 513	540	1 106	14 387	52 450	109 104	161 296	D
323	Printing & related support activities.	1	274	68	5 768	213 231	3 901	7 625	122 013	390 760	297 845	686 786	38 051
3231	Printing & related support activities.	1	274	68	5 768	213 231	3 901	7 625	122 013	390 760	297 845	686 786	38 051
32311	Printing.	1	228	52	4 779	177 910	3 128	6 118	99 288	324 826	283 720	606 631	33 622
323110	Commercial lithographic printing.	1	107	33	2 944	116 552	1 923	3 739	64 237	204 091	172 071	374 155	17 760
32312	Support activities for printing.	2	46	16	989	35 321	773	1 507	22 725	65 934	14 125	80 155	4 429
323122	Prepress services.	2	35	12	804	29 516	621	1 232	19 373	55 819	12 531	68 513	3 705
325	Chemical mfg.	2	94	44	4 298	163 536	2 482	4 848	75 578	665 486	508 740	1 169 935	62 053
3253	Pesticide, fertilizer, & other agricultural chemical mfg.	6	8	4	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.	2	21	10	1 356	54 211	755	1 312	24 010	259 608	112 112	368 876	D
32541	Pharmaceutical & medicine mfg.	2	21	10	1 356	54 211	755	1 312	24 010	259 608	112 112	368 876	D
325412	Pharmaceutical preparation mfg.	1	11	7	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg.	3	19	10	g	D	D	D	D	D	D	D	18 010
32561	Soap & cleaning compound mfg.	4	13	6	f	D	D	D	D	D	D	D	15 019
3259	Other chemical product mfg.	-	19	9	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg.	-	13	7	f	D	D	D	D	D	D	D	2 230
326	Plastics & rubber products mfg.	-	66	37	4 013	108 440	3 239	5 439	61 535	318 615	282 794	590 990	32 134
3261	Plastics product mfg.	-	57	33	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.	-	38	21	2 685	66 413	2 231	3 513	36 492	215 982	173 759	378 869	21 902
326199	All other plastics product mfg.	-	34	20	h	D	D	D	D	D	D	D	21 854
3262	Rubber product mfg.	-	9	4	f	D	D	D	D	D	D	D	D
32621	Tire mfg.	-	5	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.	2	50	23	1 060	35 213	768	1 385	21 949	79 649	76 877	156 872	6 353
3273	Cement & concrete product mfg.	2	32	17	692	24 083	538	979	16 629	55 338	59 356	114 723	D
32732	Ready-mix concrete mfg.	1	21	13	501	16 528	390	644	11 315	36 725	44 950	81 916	3 606
327320	Ready-mix concrete mfg.	1	21	13	501	16 528	390	644	11 315	36 725	44 950	81 916	3 606
331	Primary metal mfg.	-	11	5	f	D	D	D	D	D	D	D	D
3315	Foundries.	-	8	4	f	D	D	D	D	D	D	D	1 404
33152	Nonferrous metal foundries.	-	8	4	f	D	D	D	D	D	D	D	1 404
332	Fabricated metal product mfg.	-	168	53	4 823	156 149	3 641	7 362	97 107	289 693	247 055	543 838	16 862
3322	Cutlery & handtool mfg.	-	8	3	654	20 987	559	1 204	16 433	35 669	20 522	63 307	1 814
33221	Cutlery & handtool mfg.	-	8	3	654	20 987	559	1 204	16 433	35 669	20 522	63 307	1 814
332212	Hand & edge tool mfg.	-	7	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.	-	40	16	1 240	42 715	815	1 742	22 272	89 748	103 876	193 522	2 744
33231	Plate work & fabricated structural product mfg.	-	12	7	511	19 231	339	798	9 853	44 437	63 579	108 229	1 462
33232	Ornamental & architectural metal products mfg.	-	28	9	729	23 484	476	944	12 419	45 311	40 297	85 293	1 282

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ST. LOUIS COUNTY, MO—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	72	18	1 200	40 142	986	2 026	29 542	85 571	37 982	122 294	5 126
33272	Turned product & screw, nut, & bolt mfg	1	24	12	723	22 973	610	1 283	17 227	53 443	27 874	79 707	3 494
332721	Precision turned product mfg	1	20	8	566	17 238	483	1 019	13 463	41 327	21 275	60 980	D
3329	Other fabricated metal product mfg	—	18	7	1 230	35 798	925	1 644	19 203	45 134	58 295	104 975	4 594
33291	Metal valve mfg	—	7	5	g	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	—	4	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	122	51	8 564	312 299	5 549	11 256	166 398	769 556	565 501	1 333 012	45 640
3332	Industrial machinery mfg ..	—	18	7	807	29 730	484	1 008	15 141	69 397	48 237	115 384	3 609
33329	Other industrial machinery mfg	—	16	7	f	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg	—	5	3	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	—	11	5	1 222	45 550	618	1 182	17 278	131 488	108 887	243 730	6 862
33331	Commercial & service industry machinery mfg	—	11	5	1 222	45 550	618	1 182	17 278	131 488	108 887	243 730	6 862
333311	Automatic vending machine mfg	—	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	9	6	2 382	79 323	1 755	3 486	52 392	202 433	178 306	386 071	9 361
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	1	9	6	2 382	79 323	1 755	3 486	52 392	202 433	178 306	386 071	9 361
333415	AC & warm air heating & commercial/ industrial refig equip mfg	1	5	4	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	—	40	13	1 683	67 963	1 193	2 531	43 332	157 452	104 523	252 671	15 252
33351	Metalworking machinery mfg	—	40	13	1 683	67 963	1 193	2 531	43 332	157 452	104 523	252 671	15 252
333515	Cutting tool & machine tool accessory mfg ..	—	12	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	33	15	2 112	77 779	1 260	2 602	31 254	181 527	101 432	283 523	9 018
33399	All other general-purpose machinery mfg	—	21	9	1 667	62 805	990	2 062	23 842	143 585	73 210	217 729	8 249
333993	Packaging machinery mfg	—	6	3	f	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg ..	—	4	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	61	22	h	D	D	D	D	D	D	D	13 283
3345	Navigational, measuring, medical, & control instruments mfg	—	22	10	2 582	119 983	1 052	2 049	30 126	281 023	114 604	412 044	D
33451	Navigational, measuring, medical, & control instruments mfg	—	22	10	2 582	119 983	1 052	2 049	30 126	281 023	114 604	412 044	D
334510	Electromedical & electrotherapeutic apparatus mfg	—	4	3	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	2	2	f	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg	—	3	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	25	12	1 509	57 329	1 151	2 326	37 637	169 205	85 006	255 030	6 893
3353	Electrical equipment mfg ..	1	19	9	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	1	19	9	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	25	13	32 463	1 804 207	16 318	35 903	893 818	4 399 475	10 905 668	17 682 097	D
3361	Motor vehicle mfg	—	3	3	j	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	3	3	j	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	—	3	3	j	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	13	7	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	ST. LOUIS COUNTY, MO—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	-	5	3	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	5	3	j	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	1	1	j	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	42	10	1 113	33 552	910	1 963	21 066	69 957	67 143	136 012	3 407
3372	Office furniture (including fixtures) mfg	-	14	7	779	23 289	652	1 449	14 413	45 572	47 803	92 214	1 638
33721	Office furniture (including fixtures) mfg	-	14	7	779	23 289	652	1 449	14 413	45 572	47 803	92 214	1 638
337215	Showcase, partition, shelving, & locker mfg	-	8	4	667	18 760	563	1 280	11 331	39 051	45 132	82 998	D
339	Miscellaneous mfg	1	148	34	3 586	115 789	1 904	3 683	46 799	297 041	199 953	495 698	14 864
3391	Medical equipment & supplies mfg	1	84	18	2 229	79 553	1 235	2 431	32 506	234 843	121 008	355 042	10 245
33911	Medical equipment & supplies mfg	1	84	18	2 229	79 553	1 235	2 431	32 506	234 843	121 008	355 042	10 245
339112	Surgical & medical instrument mfg	-	14	6	1 285	51 557	559	1 151	16 279	154 469	84 526	238 853	6 435
3399	Other miscellaneous mfg ..	1	64	16	1 357	36 236	669	1 252	14 293	62 198	78 945	140 656	4 619
	SALINE COUNTY, MO												
31-33	Manufacturing	-	24	9	2 530	55 386	2 266	4 290	46 112	223 133	425 732	647 486	12 124
311	Food mfg	-	7	3	1 666	35 176	1 492	2 463	29 299	169 681	358 440	528 298	9 516
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
3116	Meat product mfg	-	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	2	1	f	D	D	D	D	D	D	D	D
	SCOTT COUNTY, MO												
31-33	Manufacturing	-	77	25	3 008	66 057	2 556	4 905	51 114	234 622	303 500	532 559	12 021
321	Wood product mfg	-	5	2	626	15 248	550	1 079	13 313	25 627	48 441	73 863	D
3219	Other wood product mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) ...	-	1	1	f	D	D	D	D	D	D	D	D
	SHANNON COUNTY, MO												
31-33	Manufacturing	2	22	7	710	8 148	592	778	6 298	20 326	20 068	40 854	945
	SHELBY COUNTY, MO												
31-33	Manufacturing	-	5	3	f	D	D	D	D	D	D	D	3 789
	STODDARD COUNTY, MO												
31-33	Manufacturing	-	40	18	2 372	42 394	2 051	4 011	34 241	149 063	113 479	263 970	3 373
311	Food mfg	-	5	2	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
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
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D

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)				
SULLIVAN COUNTY, MO													
31-33	Manufacturing	-	5	2	g	D	D	D	D	D	D	D	D
311	Food mfg.....	-	2	2	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	f	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	f	D	D	D	D	D	D	D	D
TANEY COUNTY, MO													
31-33	Manufacturing	4	59	8	798	15 843	622	1 074	10 571	49 328	38 497	87 835	2 819
TEXAS COUNTY, MO													
31-33	Manufacturing	1	53	10	1 399	26 197	1 200	2 303	21 252	78 906	76 739	169 584	5 108
315	Apparel mfg	2	3	3	664	10 510	574	1 026	7 862	26 786	21 024	47 839	D
3152	Cut & sew apparel mfg	2	2	2	f	D	D	D	D	D	D	D	D
VERNON COUNTY, MO													
31-33	Manufacturing	-	21	11	1 561	43 972	1 286	2 483	31 863	280 118	146 828	425 786	D
326	Plastics & rubber products mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	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
WARREN COUNTY, MO													
31-33	Manufacturing	3	37	16	2 042	50 093	1 590	3 856	36 154	117 051	123 032	242 682	6 124
336	Transportation equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
WAYNE COUNTY, MO													
31-33	Manufacturing	5	28	6	510	8 331	454	660	5 454	24 205	19 940	43 985	1 491
WEBSTER COUNTY, MO													
31-33	Manufacturing	1	44	13	g	D	D	D	D	D	D	D	4 403
WRIGHT COUNTY, MO													
31-33	Manufacturing	-	18	6	730	14 160	678	1 246	12 697	59 475	43 213	101 953	1 140

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)				
	ST. LOUIS, MO (IC)												
31-33	Manufacturing	-	802	313	33 836	1 243 627	23 100	47 110	723 397	5 088 636	3 497 376	8 605 466	365 744
311	Food mfg	-	66	29	4 026	118 768	2 727	5 878	68 932	507 688	594 321	1 100 070	20 531
3113	Sugar & confectionery product mfg	-	9	4	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	3	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	18	7	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	17	6	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	8	5	g	D	D	D	D	D	D	D	D
3119	Other food mfg	3	11	8	594	19 917	383	819	9 553	110 272	75 914	187 726	D
312	Beverage & tobacco product mfg	-	5	5	h	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	5	5	h	D	D	D	D	D	D	D	D
31212	Breweries	-	2	2	g	D	D	D	D	D	D	D	D
312120	Breweries	-	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg	1	22	7	829	16 011	698	1 121	11 522	30 445	26 425	57 545	D
3159	Apparel accessories & other apparel mfg	2	13	6	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	2	13	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	22	16	928	30 977	674	1 431	18 566	64 329	78 582	143 203	5 422
3222	Converted paper product mfg	1	22	16	928	30 977	674	1 431	18 566	64 329	78 582	143 203	5 422
32221	Paperboard container mfg	2	13	10	549	19 621	369	755	10 487	37 763	54 917	92 562	3 332
323	Printing & related support activities.....	2	144	37	3 029	106 967	2 254	4 344	66 658	230 111	127 718	357 317	13 992
3231	Printing & related support activities.....	2	144	37	3 029	106 967	2 254	4 344	66 658	230 111	127 718	357 317	13 992
32311	Printing	2	127	29	h	D	D	D	D	D	D	D	12 270
323110	Commercial lithographic printing ..	4	68	17	1 497	57 668	1 079	2 043	35 501	108 822	62 283	171 443	5 590
325	Chemical mfg	-	71	34	6 228	254 865	3 408	7 316	124 536	1 947 626	969 536	2 924 807	90 156
3251	Basic chemical mfg	-	12	7	780	36 569	446	946	19 442	187 691	126 774	308 179	10 997
3254	Pharmaceutical & medicine mfg	-	10	6	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	10	6	h	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg	-	3	3	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	3	23	9	f	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	3	18	7	659	28 497	275	537	8 921	159 796	134 424	292 050	5 353
325510	Paint & coating mfg ...	3	18	7	659	28 497	275	537	8 921	159 796	134 424	292 050	5 353
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	15	8	1 287	48 117	1 058	2 096	34 811	849 093	331 678	1 176 835	D
32561	Soap & cleaning compound mfg	-	14	7	g	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	-	9	5	860	36 715	708	1 426	27 634	821 042	304 297	1 121 399	D
326	Plastics & rubber products mfg	3	36	16	1 300	42 411	1 025	2 064	25 785	96 684	106 896	203 867	7 721
3261	Plastics product mfg	5	29	13	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	9	3	578	22 871	400	911	14 962	72 291	48 330	115 357	D
332	Fabricated metal product mfg	1	161	62	4 745	173 129	3 403	7 045	105 171	331 807	267 179	603 844	21 841
3321	Forging & stamping	-	10	5	529	19 372	391	847	13 169	41 031	34 397	75 750	3 959
33211	Forging & stamping	-	10	5	529	19 372	391	847	13 169	41 031	34 397	75 750	3 959
332116	Metal stamping.....	-	8	5	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	37	15	911	31 554	638	1 361	17 824	67 901	78 835	146 759	2 645
33231	Plate work & fabricated structural product mfg ..	1	18	10	514	18 878	355	797	10 288	39 110	57 969	97 237	1 930
3324	Boiler, tank, & shipping container mfg	-	9	5	1 024	41 687	713	1 469	25 922	69 400	49 230	125 604	3 414
33241	Power boiler & heat exchanger mfg	-	4	2	f	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	4	2	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	38	13	757	28 023	610	1 199	19 885	51 418	33 003	83 796	3 428
3328	Coating, engraving, heat treating, & allied activities.	2	35	11	776	28 829	573	1 210	16 551	55 895	19 387	75 261	3 792
33281	Coating, engraving, heat treating, & allied activities.....	2	35	11	776	28 829	573	1 210	16 551	55 895	19 387	75 261	3 792

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)				
31-33	ST. LOUIS, MO (IC)—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	44	20	2 991	103 903	2 081	4 159	63 235	248 279	254 771	505 876	14 574
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial industrial refrig equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	5	847	37 188	517	1 110	18 988	58 674	43 654	104 905	3 794
33399	All other general-purpose machinery mfg	-	5	3	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	-	3	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	17	7	539	16 092	314	581	5 850	29 081	22 730	51 844	D
335	Electrical equipment, appliance, & component mfg	-	12	8	802	32 553	540	1 061	17 684	78 374	67 883	145 624	D
336	Transportation equipment mfg	-	18	9	g	D	D	D	D	D	D	D	6 622
3363	Motor vehicle parts mfg ...	-	11	6	846	32 787	641	1 375	20 833	62 283	47 129	108 574	D
337	Furniture & related product mfg	-	39	15	1 039	31 055	805	1 508	19 251	66 120	49 142	124 880	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	21	8	558	17 042	427	864	10 348	47 881	26 959	74 616	993
339	Miscellaneous mfg	2	58	18	1 420	41 260	863	1 806	18 892	94 847	56 485	150 948	4 973
3391	Medical equipment & supplies mfg	-	19	4	642	21 602	369	952	9 208	56 863	28 249	85 070	D
33911	Medical equipment & supplies mfg	-	19	4	642	21 602	369	952	9 208	56 863	28 249	85 070	D
339112	Surgical & medical instrument mfg	-	2	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	4	39	14	778	19 658	494	854	9 684	37 984	28 236	65 878	D

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

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

Table 4. Industry Statistics for Places: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ARNOLD, MO												
	Manufacturing	1	21	5	693	26 328	566	1 285	18 556	61 297	142 239	204 113	5 143
31-33	AURORA, MO												
	Manufacturing	-	15	8	772	15 784	608	1 174	12 382	66 056	58 919	125 795	3 635
31-33	BERKELEY, MO												
	Manufacturing	-	26	12	j	D	D	D	D	D	D	D	D
325	Chemical mfg	-	5	4	588	22 329	346	508	8 945	96 431	49 913	146 643	1 374
336	Transportation equipment mfg	-	2	1	j	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	1	1	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	1	1	j	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	1	1	j	D	D	D	D	D	D	D	D
31-33	BLUE SPRINGS, MO												
	Manufacturing	6	41	8	978	28 192	698	1 363	15 009	74 315	53 397	127 483	3 483
31-33	BOLIVAR, MO												
	Manufacturing	-	15	6	642	10 236	457	734	5 672	25 974	29 312	54 921	315
31-33	BOONVILLE, MO												
	Manufacturing	-	9	6	754	16 314	625	1 169	12 100	70 229	55 071	124 985	D
31-33	BRENTWOOD, MO												
	Manufacturing	-	65	24	1 872	64 311	1 288	2 479	33 409	146 249	98 647	248 473	9 782
323	Printing & related support activities	1	21	8	512	17 902	377	721	10 880	32 780	11 218	43 751	2 144
3231	Printing & related support activities	1	21	8	512	17 902	377	721	10 880	32 780	11 218	43 751	2 144
31-33	BRIDGETON, MO												
	Manufacturing	-	67	26	5 308	160 705	3 935	7 442	100 778	481 935	489 034	976 527	28 432
326	Plastics & rubber products mfg	-	7	6	910	20 731	728	1 169	11 772	74 831	56 310	130 638	10 123
3261	Plastics product mfg	-	7	6	910	20 731	728	1 169	11 772	74 831	56 310	130 638	10 123
32619	Other plastics product mfg	-	7	6	910	20 731	728	1 169	11 772	74 831	56 310	130 638	10 123
326199	All other plastics product mfg	-	7	6	910	20 731	728	1 169	11 772	74 831	56 310	130 638	10 123
333	Machinery mfg	-	5	4	2 831	96 111	1 992	3 939	59 660	269 742	217 357	495 622	D
3333	Commercial & service industry machinery mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg	-	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
31-33	BROOKFIELD, MO												
	Manufacturing	-	12	6	f	D	D	D	D	D	D	D	2 176
31-33	CALIFORNIA, MO												
	Manufacturing	4	13	6	g	D	D	D	D	D	D	D	3 763
311	Food mfg	3	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	3	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	3	2	2	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	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)				
CAPE GIRARDEAU, MO *													
31-33	Manufacturing	-	52	18	3 602	111 278	2 957	5 660	84 575	721 404	520 533	1 246 861	50 541
315	Apparel mfg	-	2	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
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
32229	Other converted paper product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	g	D	D	D	D	D	D	D	D
CARTHAGE, MO													
31-33	Manufacturing	-	23	12	4 069	93 125	3 323	8 265	77 761	315 139	555 230	874 501	33 403
311	Food mfg	-	4	3	1 761	40 385	1 505	4 491	35 404	159 152	335 911	494 729	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
311513	Cheese mfg	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	4	2	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	-	2	2	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	2	2	f	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
CARUTHERSVILLE, MO													
31-33	Manufacturing	-	6	4	f	D	D	D	D	D	D	D	D
CENTRALIA, MO *													
31-33	Manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
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
CHESTERFIELD, MO													
31-33	Manufacturing	-	42	12	1 489	47 825	1 092	2 284	28 449	108 081	102 909	207 702	8 966
333	Machinery mfg	1	8	4	620	25 295	376	880	12 468	55 920	37 716	91 708	4 126
CHILLICOTHE, MO													
31-33	Manufacturing	-	23	10	779	20 651	666	1 267	15 917	63 768	43 810	105 765	3 020
CLINTON, MO													
31-33	Manufacturing	-	17	7	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	2	1	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
333414	Heating equipment (except warm air furnaces) 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)				
COLUMBIA, MO													
31-33	Manufacturing	-	62	23	4 277	120 654	3 456	7 028	83 472	739 533	636 599	1 376 068	D
311	Food mfg	-	7	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	6	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	3	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
334413	Semiconductor & related device mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
3363	Motor vehicle parts mfg ...	-	6	5	609	18 018	461	1 051	12 320	149 800	319 103	469 188	2 754
CRESTWOOD, MO													
31-33	Manufacturing	-	29	10	888	31 512	590	1 222	18 474	81 873	72 925	153 559	5 399
CREVE COEUR, MO													
31-33	Manufacturing	-	31	10	1 377	43 388	1 005	1 776	22 894	305 915	206 810	513 555	9 180
CUBA, MO													
31-33	Manufacturing	-	19	9	661	17 034	538	1 008	10 981	49 740	52 155	102 446	8 487
DEXTER, MO													
31-33	Manufacturing	-	18	9	1 658	30 863	1 497	3 024	26 527	120 561	91 060	212 623	1 949
311	Food mfg	-	3	2	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
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
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
ELDON, MO													
31-33	Manufacturing	-	10	3	1 130	25 732	908	1 594	18 461	54 790	55 825	108 452	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
EUREKA, MO													
31-33	Manufacturing	-	7	2	570	18 771	476	1 080	15 087	33 590	20 113	60 746	D
332	Fabricated metal product mfg	-	4	2	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
EXCELSIOR SPRINGS, MO *													
31-33	Manufacturing	-	16	6	1 154	29 066	911	1 258	18 678	105 321	167 585	274 203	D

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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)				
FARMINGTON, MO													
31-33	Manufacturing	3	26	10	2 370	44 302	2 000	3 766	29 355	141 633	109 826	247 169	9 821
336	Transportation equipment mfg	1	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	9	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	9	1	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
FENTON, MO													
31-33	Manufacturing	-	88	39	10 768	632 820	9 246	19 618	538 542	1 072 610	5 222 362	6 269 533	119 113
336	Transportation equipment mfg	-	3	3	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	2	2	i	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	2	i	D	D	D	D	D	D	D	D
FREDERICKTOWN, MO													
31-33	Manufacturing	1	10	4	535	8 106	443	756	5 818	17 882	9 507	27 166	676
FULTON, MO													
31-33	Manufacturing	1	15	9	f	D	D	D	D	D	D	D	3 983
GRANDVIEW, MO													
31-33	Manufacturing	1	73	26	2 575	71 744	1 811	3 407	37 952	162 909	189 725	351 077	14 377
333	Machinery mfg	1	8	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	10	5	f	D	D	D	D	D	D	D	3 616
3363	Motor vehicle parts mfg ...	1	7	3	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
HANNIBAL, MO *													
31-33	Manufacturing	-	33	15	g	D	D	D	D	D	D	D	D
311	Food mfg	-	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system 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)				
HAZELWOOD, MO													
31-33	Manufacturing	-	36	18	5 349	258 249	3 908	8 097	177 735	3 533 821	3 061 219	6 583 205	86 358
311	Food mfg	4	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	6	4	508	9 245	434	563	4 904	50 170	31 525	76 020	2 123
334	Computer & electronic product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
334510	Electromedical & electrotherapeutic apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	1	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
INDEPENDENCE, MO *													
31-33	Manufacturing	3	108	31	3 711	129 111	2 692	5 087	85 286	521 830	287 116	812 504	14 686
332	Fabricated metal product mfg	-	24	9	1 545	58 026	1 048	1 856	35 394	151 069	33 289	183 793	2 260
3329	Other fabricated metal product mfg	-	3	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	3	2	g	D	D	D	D	D	D	D	D
332992	Small arms ammunition mfg	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	14	4	923	33 953	687	1 366	23 021	58 425	123 607	181 232	4 807
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
JACKSON, MO													
31-33	Manufacturing	-	17	6	1 717	34 181	1 079	2 242	19 089	126 857	119 107	246 462	11 924
332	Fabricated metal product mfg	-	3	1	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
JEFFERSON CITY, MO *													
31-33	Manufacturing	-	39	12	3 603	114 948	2 958	5 333	86 808	610 123	438 445	1 046 849	19 627
323	Printing & related support activities	-	10	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	10	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	9	2	f	D	D	D	D	D	D	D	D
323117	Book printing	-	1	1	f	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
325611	Soap & other detergent mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
JOPLIN, MO *														
31-33	Manufacturing	-	108	40	5 585	148 204	4 252	8 693	101 754	390 960	457 510	849 762	D	
324	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D	
3241	Petroleum & coal products mfg	2	5	3	f	D	D	D	D	D	D	D	D	
32412	Asphalt paving, roofing, & saturated materials mfg	2	5	3	f	D	D	D	D	D	D	D	D	
324122	Asphalt shingle & coating materials mfg	2	5	3	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	-	22	9		925	32 902	753	1 686	25 647	69 990	59 686	127 079	8 023
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D	
3359	Other electrical equipment & component mfg	-	2	1	f	D	D	D	D	D	D	D	D	
33591	Battery mfg	-	1	1	f	D	D	D	D	D	D	D	D	
335911	Storage battery mfg	-	1	1	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	3	2	f	D	D	D	D	D	D	D	D	
33639	Other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D	
336399	All other motor vehicle parts mfg	-	2	2	f	D	D	D	D	D	D	D	D	
KANSAS CITY, MO *														
31-33	Manufacturing	-	575	207	27 888	998 464	17 573	34 482	512 376	4 235 403	2 966 059	7 155 513	173 453	
311	Food mfg	-	44	16	g	D	D	D	D	D	D	D	D	
3118	Bakeries & tortilla mfg	-	13	3	676	21 219	209	459	6 672	46 718	15 913	62 621	1 437	
31181	Bread & bakery product mfg	-	12	3	f	D	D	D	D	D	D	D	D	
311812	Commercial bakeries ..	-	5	2	f	D	D	D	D	D	D	D	D	
322	Paper mfg	-	20	15	2 829	88 976	2 249	4 269	60 076	193 211	255 646	448 874	16 830	
3222	Converted paper product mfg	-	20	15	2 829	88 976	2 249	4 269	60 076	193 211	255 646	448 874	16 830	
32221	Paperboard container mfg	-	11	8	956	36 107	731	1 608	23 823	56 322	103 131	160 911	10 123	
32222	Paper bag & coated & treated paper mfg	-	3	2	f	D	D	D	D	D	D	D	D	
322224	Uncoated paper & multiwall bag mfg	-	2	2	f	D	D	D	D	D	D	D	D	
32223	Stationery product mfg ..	-	3	3	f	D	D	D	D	D	D	D	D	
322232	Envelope mfg	-	2	2	f	D	D	D	D	D	D	D	D	
323	Printing & related support activities.....	1	112	25	2 744	92 505	2 101	3 931	61 937	197 759	99 997	295 982	10 664	
3231	Printing & related support activities.....	1	112	25	2 744	92 505	2 101	3 931	61 937	197 759	99 997	295 982	10 664	
32311	Printing	1	90	21	g	D	D	D	D	D	D	D	D	
323110	Commercial lithographic printing ..	1	50	13	1 482	53 391	1 139	2 163	34 239	107 131	64 779	170 221	5 793	
323114	Quick printing	1	16	3	614	16 412	486	908	13 690	46 994	15 657	62 402	D	
325	Chemical mfg	-	35	15	h	D	D	D	D	D	D	D	52 511	
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	-	2	1	g	D	D	D	D	D	D	D	D	
32532	Pesticide & other agricultural chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D	
325320	Pesticide & other agricultural chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D	
3254	Pharmaceutical & medicine mfg	-	6	3	g	D	D	D	D	D	D	D	D	
32541	Pharmaceutical & medicine mfg	-	6	3	g	D	D	D	D	D	D	D	D	
325412	Pharmaceutical preparation mfg	-	5	2	f	D	D	D	D	D	D	D	D	
3255	Paint, coating, & adhesive mfg	4	8	3	f	D	D	D	D	D	D	D	D	
32552	Adhesive mfg	4	3	3	539	17 050	376	777	9 198	36 955	48 483	85 871	D	
325520	Adhesive mfg	4	3	3	539	17 050	376	777	9 198	36 955	48 483	85 871	D	
326	Plastics & rubber products mfg	4	24	14	f	D	D	D	D	D	D	D	3 617	
3261	Plastics product mfg	4	18	10	672	18 697	483	1 053	10 411	44 420	38 922	83 270	D	

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	KANSAS CITY, MO *—Con.													
31-33	Manufacturing—Con.													
331	Primary metal mfg	—	13	5	g	D	D	D	D	D	D	D	D	
3311	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D	
33111	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D	
331111	Iron & steel mills	—	1	1	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	—	95	34		6 631	271 451	3 462	6 499	114 405	564 669	213 687	777 107	13 543
3323	Architectural & structural metals mfg	—	25	11		1 371	36 967	918	1 800	21 779	72 277	73 204	145 977	4 473
33232	Ornamental & architectural metal products mfg	—	19	8	f	D	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	8	6	h	D	D	D	D	D	D	D	D	1 829
33299	All other fabricated metal product mfg	—	8	6	h	D	D	D	D	D	D	D	D	1 829
332995	Other ordnance & accessories mfg	—	1	1	h	D	D	D	D	D	D	D	D	D
333	Machinery mfg	2	43	19	g	D	D	D	D	D	D	D	D	4 573
3339	Other general-purpose machinery mfg	2	14	6	f	D	D	D	D	D	D	D	D	1 923
33392	Material handling equipment mfg	2	9	6	f	D	D	D	D	D	D	D	D	1 782
333922	Conveyor & conveying equipment mfg	2	8	6	f	D	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	13	6	g	D	D	D	D	D	D	D	D	21 057
3346	Mfg & reproducing magnetic & optical media	—	4	2	f	D	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	—	4	2	f	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	4	8	5		762	22 584	411	803	7 699	32 960	42 558	76 197	D
336	Transportation equipment mfg	3	22	9	f	D	D	D	D	D	D	D	D	4 650
3363	Motor vehicle parts mfg ...	4	14	3	f	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	34	8		833	22 200	589	1 160	13 211	32 335	29 369	61 269	1 373
3371	Household & institutional furniture & kitchen cabinet mfg	—	16	3	f	D	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	42	19		1 770	49 077	1 209	2 243	25 309	115 490	68 622	183 816	6 333
3391	Medical equipment & supplies mfg	1	19	8		628	17 897	416	773	8 223	50 941	20 874	71 537	2 455
33911	Medical equipment & supplies mfg	1	19	8		628	17 897	416	773	8 223	50 941	20 874	71 537	2 455
3399	Other miscellaneous mfg ..	2	23	11		1 142	31 180	793	1 470	17 086	64 549	47 748	112 279	3 878
33999	All other miscellaneous mfg	1	6	3	f	D	D	D	D	D	D	D	D	D
	KENNETT, MO													
31-33	Manufacturing	—	13	5		989	22 417	821	1 723	16 411	120 511	109 957	235 341	3 468
	KIRKSVILLE, MO													
31-33	Manufacturing	—	10	5		1 619	39 777	1 392	3 010	31 915	221 671	190 406	412 448	5 563
311	Food mfg	—	2	1	f	D	D	D	D	D	D	D	D	D
	KIRKWOOD, MO													
31-33	Manufacturing	1	41	16		1 272	41 060	936	1 778	23 488	74 903	61 239	136 465	4 847

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LAMAR, MO													
31-33	Manufacturing	-	6	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	1	1	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
LEBANON, MO													
31-33	Manufacturing	-	33	19	4 541	111 738	3 674	7 911	71 873	326 448	440 108	757 757	43 450
315	Apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	3	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 refrig equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	3	894	17 980	777	1 709	11 421	45 317	54 523	99 291	D
3353	Electrical equipment mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	8	6	g	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	4	4	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	4	4	f	D	D	D	D	D	D	D	D
336612	Boat building	-	4	4	f	D	D	D	D	D	D	D	D
LEE'S SUMMIT, MO *													
31-33	Manufacturing	-	77	17	2 577	72 062	1 636	3 331	47 005	296 146	163 971	456 719	22 707
326	Plastics & rubber products mfg	-	8	4	g	D	D	D	D	D	D	D	15 364
3261	Plastics product mfg	-	8	4	g	D	D	D	D	D	D	D	15 364
32619	Other plastics product mfg	-	5	4	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	5	4	g	D	D	D	D	D	D	D	D
333	Machinery mfg	1	16	4	f	D	D	D	D	D	D	D	3 561
LIBERTY, MO													
31-33	Manufacturing	1	23	9	g	D	D	D	D	D	D	D	11 718
311	Food mfg	-	2	1	g	D	D	D	D	D	D	D	D
3119	Other food mfg	-	1	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg .	-	1	1	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	6	9	3	527	16 169	392	823	10 819	42 992	33 725	76 211	3 113
3231	Printing & related support activities	6	9	3	527	16 169	392	823	10 819	42 992	33 725	76 211	3 113
32311	Printing	6	8	3	f	D	D	D	D	D	D	D	3 113
MACON, MO													
31-33	Manufacturing	-	10	4	g	D	D	D	D	D	D	D	2 220
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MAPLEWOOD, MO													
31-33	Manufacturing	—	32	15	1 502	55 682	1 070	2 007	34 894	113 932	88 227	193 049	9 352
333	Machinery mfg	—	5	4	824	35 289	541	1 222	22 423	87 326	56 952	135 140	D
3335	Metalworking machinery mfg	—	4	3	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	—	4	3	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
MARCELINE, MO *													
31-33	Manufacturing	1	6	3	975	29 525	611	1 662	15 080	55 191	19 725	73 933	D
323	Printing & related support activities.....	—	2	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	—	2	1	f	D	D	D	D	D	D	D	D
32311	Printing	—	1	1	f	D	D	D	D	D	D	D	D
323117	Book printing.....	—	1	1	f	D	D	D	D	D	D	D	D
MARSHALL, MO													
31-33	Manufacturing	—	14	6	1 950	42 891	1 746	3 055	35 450	184 980	368 129	552 927	9 740
311	Food mfg	—	6	3	g	D	D	D	D	D	D	D	D
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
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
311611	Animal (except poultry) slaughtering	—	1	1	f	D	D	D	D	D	D	D	D
MARSHFIELD, MO													
31-33	Manufacturing	1	18	8	f	D	D	D	D	D	D	D	2 234
MARYLAND HEIGHTS, MO													
31-33	Manufacturing	2	132	56	4 858	171 620	3 047	6 004	82 449	487 540	493 603	980 311	39 773
323	Printing & related support activities.....	3	42	14	863	32 208	585	1 212	18 121	63 122	35 935	100 849	3 806
3231	Printing & related support activities.....	3	42	14	863	32 208	585	1 212	18 121	63 122	35 935	100 849	3 806
32311	Printing	4	30	9	531	18 629	360	725	10 340	39 335	30 307	71 279	1 857
325	Chemical mfg	1	9	7	701	31 665	409	791	15 419	176 106	133 472	306 915	19 399
332	Fabricated metal product mfg	—	18	8	822	26 554	530	1 010	12 251	38 925	40 892	80 452	2 247
3329	Other fabricated metal product mfg	—	2	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	12	6	910	31 873	627	1 326	13 421	64 497	26 249	90 437	5 573
3339	Other general-purpose machinery mfg	—	3	3	712	22 751	520	1 074	9 718	51 991	20 126	71 877	D
33399	All other general-purpose machinery mfg	—	3	3	712	22 751	520	1 074	9 718	51 991	20 126	71 877	D
333994	Industrial process furnace & oven mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
MARYVILLE, MO													
31-33	Manufacturing	—	13	7	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	4	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	4	2	f	D	D	D	D	D	D	D	D
33591	Battery mfg	—	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery 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)				
MEXICO, MO													
31-33	Manufacturing	1	23	15	1 971	57 589	1 627	3 152	44 187	150 391	281 307	438 461	16 909
327	Nonmetallic mineral product mfg	-	4	3	773	28 239	667	1 278	23 306	56 832	52 564	110 000	D
3271	Clay product & refractory mfg	-	2	2	f	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	2	2	f	D	D	D	D	D	D	D	D
327124	Clay refractory mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
MOBERLY, MO													
31-33	Manufacturing	2	26	8	1 245	28 078	1 068	1 816	20 101	78 951	93 077	170 268	D
336	Transportation equipment mfg	2	7	6	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	3	6	5	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	1	f	D	D	D	D	D	D	D	D
MONETT, MO *													
31-33	Manufacturing	-	27	17	4 203	103 488	3 104	7 167	63 424	352 179	405 933	743 623	6 477
311	Food mfg	-	4	4	g	D	D	D	D	D	D	D	1 421
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
332	Fabricated metal product mfg	-	9	5	1 716	44 874	972	2 483	19 575	108 257	49 408	157 018	3 340
3323	Architectural & structural metals mfg	-	3	3	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	3	3	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	2	2	g	D	D	D	D	D	D	D	D
MONROE CITY, MO *													
31-33	Manufacturing	-	5	3	1 109	29 388	833	1 454	26 406	47 194	27 030	75 561	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	-	1	1	f	D	D	D	D	D	D	D	D
NEOSHO, MO													
31-33	Manufacturing	-	22	12	3 690	88 360	3 176	6 854	73 883	237 289	335 086	585 459	26 271
332	Fabricated metal product mfg	-	4	1	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	1	1	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	1	1	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture 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)				
NEVADA, MO													
31-33	Manufacturing	-	14	8	1 422	41 761	1 186	2 311	30 476	275 266	142 034	415 960	D
326	Plastics & rubber products mfg	-	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	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
NEW MADRID, MO													
31-33	Manufacturing	-	5	4	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	-	1	1	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	g	D	D	D	D	D	D	D	D
NIXA, MO													
31-33	Manufacturing	1	33	9	743	16 665	597	1 111	10 502	34 314	31 539	66 386	2 521
NORMANDY, MO													
31-33	Manufacturing	-	9	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
NORTH KANSAS CITY, MO													
31-33	Manufacturing	1	108	56	4 299	146 215	3 102	6 253	92 298	441 655	508 027	944 442	40 677
322	Paper mfg	4	7	5	f	D	D	D	D	D	D	D	3 722
323	Printing & related support activities	1	26	7	619	26 573	437	899	16 878	41 439	43 089	83 566	D
3231	Printing & related support activities	1	26	7	619	26 573	437	899	16 878	41 439	43 089	83 566	D
32311	Printing	1	20	6	f	D	D	D	D	D	D	D	2 875
325	Chemical mfg	-	15	7	515	17 061	301	613	9 202	57 231	58 192	115 642	D
332	Fabricated metal product mfg	-	15	10	711	27 516	519	1 003	18 573	96 179	78 506	167 648	6 350
O'FALLON, MO													
31-33	Manufacturing	-	54	25	g	D	D	D	D	D	D	D	9 808
OLIVETTE, MO													
31-33	Manufacturing	2	23	11	1 277	42 724	738	1 438	16 865	97 790	78 869	176 947	4 896
333	Machinery mfg	3	2	2	f	D	D	D	D	D	D	D	D
OVERLAND, MO													
31-33	Manufacturing	1	57	30	2 937	91 974	2 069	3 948	53 774	234 343	221 666	456 123	9 760
311	Food mfg	-	5	4	896	20 876	548	987	10 560	89 514	90 549	180 289	1 816
3118	Bakeries & tortilla mfg	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	3	3	542	14 006	448	881	10 177	25 862	24 901	50 535	D

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OZARK, MO													
31-33	Manufacturing	-	18	4	1 432	26 790	1 187	2 375	20 390	65 335	60 749	126 742	4 365
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
PACIFIC, MO *													
31-33	Manufacturing	-	20	10	1 566	49 769	1 381	2 212	39 822	208 742	234 575	443 944	10 239
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
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
PAGEDALE, MO													
31-33	Manufacturing	-	13	6	754	26 641	627	1 284	20 417	51 789	41 126	92 436	13 751
PALMYRA, MO													
31-33	Manufacturing	-	8	3	525	12 188	482	686	11 092	41 411	36 682	78 783	2 776
PARK HILLS, MO *													
31-33	Manufacturing	-	7	3	660	18 409	537	1 053	13 980	47 802	15 535	62 754	D
327	Nonmetallic mineral product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
PERRYVILLE, MO													
31-33	Manufacturing	-	17	9	g	D	D	D	D	D	D	D	9 529
311	Food mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
PEVELY, MO													
31-33	Manufacturing	3	9	5	757	28 636	614	1 237	22 348	102 192	96 332	194 935	31 616
POPLAR BLUFF, MO													
31-33	Manufacturing	-	29	10	2 690	59 860	2 412	4 670	48 755	249 438	191 527	465 947	9 035
326	Plastics & rubber products mfg	2	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	5	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	2	1	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
	PORTAGEVILLE, MO *												
31-33	Manufacturing	-	3	1	g	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	-	1	1	g	D	D	D	D	D	D	D	
3261	Plastics product mfg	-	1	1	g	D	D	D	D	D	D	D	
32619	Other plastics product mfg	-	1	1	g	D	D	D	D	D	D	D	
326199	All other plastics product mfg	-	1	1	g	D	D	D	D	D	D	D	
	RAYTOWN, MO												
31-33	Manufacturing	3	33	13	663	17 459	508	861	10 269	32 176	25 759	57 970	1 564
	RIVERSIDE, MO												
31-33	Manufacturing	-	14	8	f	D	D	D	D	D	D	3 426	
	ROLLA, MO												
31-33	Manufacturing	-	26	3	633	18 546	476	924	10 924	83 013	65 507	147 443	D
	ST. CHARLES, MO												
31-33	Manufacturing	-	83	26	2 565	78 707	1 926	4 077	50 525	187 380	172 796	360 220	31 646
	ST. CLAIR, MO												
31-33	Manufacturing	2	22	11	1 292	36 270	1 048	2 257	25 891	102 655	114 440	216 282	7 051
	STE. GENEVIEVE, MO												
31-33	Manufacturing	1	15	6	570	12 425	461	867	9 042	38 040	33 658	71 144	D
	ST. JOSEPH, MO												
31-33	Manufacturing	-	91	48	i	D	D	D	D	D	D	D	D
311	Food mfg	-	10	8	1 587	60 908	1 251	2 793	42 761	367 621	819 913	1 190 126	35 612
3111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
31111	Animal food mfg	-	5	3	f	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	-	3	3	884	37 738	725	1 711	28 044	230 257	623 042	856 011	D
31121	Flour milling & malt mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
311211	Flour milling	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
3222	Converted paper product mfg	-	4	4	1 131	32 560	930	1 635	24 755	48 301	149 748	186 671	5 257
32223	Stationery product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	11	7	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
331222	Steel wire drawing	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	6	514	17 760	384	784	12 622	39 493	70 926	112 907	D
333	Machinery mfg	-	8	6	825	19 708	606	1 151	13 010	120 415	93 445	213 074	8 377
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33591	Battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335911	Storage battery 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	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)
	ST. LOUIS, MO (IC)												
31-33	Manufacturing	-	802	313	33 836	1 243 627	23 100	47 110	723 397	5 088 636	3 497 376	8 605 466	365 744
311	Food mfg	-	66	29	4 026	118 768	2 727	5 878	68 932	507 688	594 321	1 100 070	20 531
3113	Sugar & confectionery product mfg	-	9	4	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	3	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	18	7	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	17	6	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	8	5	g	D	D	D	D	D	D	D	D
3119	Other food mfg	3	11	8	594	19 917	383	819	9 553	110 272	75 914	187 726	D
312	Beverage & tobacco product mfg	-	5	5	h	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	5	5	h	D	D	D	D	D	D	D	D
31212	Breweries	-	2	2	g	D	D	D	D	D	D	D	D
312120	Breweries	-	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg	1	22	7	829	16 011	698	1 121	11 522	30 445	26 425	57 545	D
3159	Apparel accessories & other apparel mfg	2	13	6	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	2	13	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	22	16	928	30 977	674	1 431	18 566	64 329	78 582	143 203	5 422
3222	Converted paper product mfg	1	22	16	928	30 977	674	1 431	18 566	64 329	78 582	143 203	5 422
32221	Paperboard container mfg	2	13	10	549	19 621	369	755	10 487	37 763	54 917	92 562	3 332
323	Printing & related support activities.....	2	144	37	3 029	106 967	2 254	4 344	66 658	230 111	127 718	357 317	13 992
3231	Printing & related support activities.....	2	144	37	3 029	106 967	2 254	4 344	66 658	230 111	127 718	357 317	13 992
32311	Printing	2	127	29	h	D	D	D	D	D	D	D	12 270
323110	Commercial lithographic printing ..	4	68	17	1 497	57 668	1 079	2 043	35 501	108 822	62 283	171 443	5 590
325	Chemical mfg	-	71	34	6 228	254 865	3 408	7 316	124 536	1 947 626	969 536	2 924 807	90 156
3251	Basic chemical mfg	-	12	7	780	36 569	446	946	19 442	187 691	126 774	308 179	10 997
3254	Pharmaceutical & medicine mfg	-	10	6	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	10	6	h	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg	-	3	3	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	3	23	9	f	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	3	18	7	659	28 497	275	537	8 921	159 796	134 424	292 050	5 353
325510	Paint & coating mfg ...	3	18	7	659	28 497	275	537	8 921	159 796	134 424	292 050	5 353
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	15	8	1 287	48 117	1 058	2 096	34 811	849 093	331 678	1 176 835	D
32561	Soap & cleaning compound mfg	-	14	7	g	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	-	9	5	860	36 715	708	1 426	27 634	821 042	304 297	1 121 399	D
326	Plastics & rubber products mfg	3	36	16	1 300	42 411	1 025	2 064	25 785	96 684	106 896	203 867	7 721
3261	Plastics product mfg	5	29	13	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	9	3	578	22 871	400	911	14 962	72 291	48 330	115 357	D
332	Fabricated metal product mfg	1	161	62	4 745	173 129	3 403	7 045	105 171	331 807	267 179	603 844	21 841
3321	Forging & stamping	-	10	5	529	19 372	391	847	13 169	41 031	34 397	75 750	3 959
33211	Forging & stamping	-	10	5	529	19 372	391	847	13 169	41 031	34 397	75 750	3 959
332116	Metal stamping.....	-	8	5	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	37	15	911	31 554	638	1 361	17 824	67 901	78 835	146 759	2 645
33231	Plate work & fabricated structural product mfg ..	1	18	10	514	18 878	355	797	10 288	39 110	57 969	97 237	1 930
3324	Boiler, tank, & shipping container mfg	-	9	5	1 024	41 687	713	1 469	25 922	69 400	49 230	125 604	3 414
33241	Power boiler & heat exchanger mfg	-	4	2	f	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	4	2	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	38	13	757	28 023	610	1 199	19 885	51 418	33 003	83 796	3 428
3328	Coating, engraving, heat treating, & allied activities.	2	35	11	776	28 829	573	1 210	16 551	55 895	19 387	75 261	3 792
33281	Coating, engraving, heat treating, & allied activities.....	2	35	11	776	28 829	573	1 210	16 551	55 895	19 387	75 261	3 792

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ST. LOUIS, MO (IC)—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	44	20	2 991	103 903	2 081	4 159	63 235	248 279	254 771	505 876	14 574
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	5	847	37 188	517	1 110	18 988	58 674	43 654	104 905	3 794
33399	All other general-purpose machinery mfg	-	5	3	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	-	3	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	17	7	539	16 092	314	581	5 850	29 081	22 730	51 844	D
335	Electrical equipment, appliance, & component mfg	-	12	8	802	32 553	540	1 061	17 684	78 374	67 883	145 624	D
336	Transportation equipment mfg	-	18	9	g	D	D	D	D	D	D	D	6 622
3363	Motor vehicle parts mfg ...	-	11	6	846	32 787	641	1 375	20 833	62 283	47 129	108 574	D
337	Furniture & related product mfg	-	39	15	1 039	31 055	805	1 508	19 251	66 120	49 142	124 880	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	21	8	558	17 042	427	864	10 348	47 881	26 959	74 616	993
339	Miscellaneous mfg	2	58	18	1 420	41 260	863	1 806	18 892	94 847	56 485	150 948	4 973
3391	Medical equipment & supplies mfg	-	19	4	642	21 602	369	952	9 208	56 863	28 249	85 070	D
33911	Medical equipment & supplies mfg	-	19	4	642	21 602	369	952	9 208	56 863	28 249	85 070	D
339112	Surgical & medical instrument mfg	-	2	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	4	39	14	778	19 658	494	854	9 684	37 984	28 236	65 878	D
	ST. PETERS, MO												
31-33	Manufacturing	-	69	21	3 822	126 424	3 130	5 846	87 626	1 227 392	266 539	1 489 668	79 120
326	Plastics & rubber products mfg	-	5	4	569	16 270	459	737	7 743	47 612	31 534	79 666	11 050
3261	Plastics product mfg	-	5	4	569	16 270	459	737	7 743	47 612	31 534	79 666	11 050
334	Computer & electronic product mfg	-	2	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	2	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	1	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	2	1	g	D	D	D	D	D	D	D	D
	SALEM, MO												
31-33	Manufacturing	1	12	4	538	6 061	512	882	5 441	14 440	8 559	22 469	409
	SCOTT CITY, MO *												
31-33	Manufacturing	-	11	4	811	18 749	705	1 475	15 638	36 166	56 439	92 390	2 861
321	Wood product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) ...	-	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)				
SEDALIA, MO													
31-33	Manufacturing	-	51	19	4 090	95 455	3 605	6 599	75 405	269 557	313 385	589 680	D
311	Food mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	12	3	f	D	D	D	D	D	D	D	D
3321	Forging & stamping.....	-	2	1	f	D	D	D	D	D	D	D	D
33211	Forging & stamping.....	-	2	1	f	D	D	D	D	D	D	D	D
332116	Metal stamping.....	-	1	1	f	D	D	D	D	D	D	D	D
SIKESTON, MO *													
31-33	Manufacturing	-	40	10	1 228	29 291	1 030	2 021	22 832	145 424	190 419	330 785	4 709
SPRINGFIELD, MO *													
31-33	Manufacturing	-	310	102	18 260	488 335	13 285	24 568	304 987	1 670 752	2 023 426	3 673 540	79 761
311	Food mfg.....	-	26	13	h	D	D	D	D	D	D	D	26 051
3115	Dairy product mfg.....	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
31151	Dairy product (except frozen) mfg.....	-	3	3	1 581	50 363	1 280	2 359	39 143	376 043	707 506	1 080 030	D
311513	Cheese mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	9	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.....	-	9	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	3	2	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	12	5	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	-	12	5	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	4	4	g	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg...	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	53	8	670	14 649	465	746	7 652	36 200	19 196	56 353	2 350
3231	Printing & related support activities.....	1	53	8	670	14 649	465	746	7 652	36 200	19 196	56 353	2 350
32311	Printing.....	1	47	8	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	11	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	9	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	1	17	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	50	15	1 930	67 516	1 244	2 556	35 601	121 010	67 459	182 889	D
3324	Boiler, tank, & shipping container mfg.....	-	4	4	g	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	1	19	10	1 346	37 170	1 007	2 007	23 842	76 716	99 682	175 042	4 158
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	1	4	4	759	22 446	573	1 168	13 941	53 811	41 944	94 997	2 606
333412	Industrial & commercial fan & blower 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)				
	SPRINGFIELD, MO *—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	-	10	6	h	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	4	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	4	3	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	-	1	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	25	11	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	14	5	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	3	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	3	1	g	D	D	D	D	D	D	D	D
	SULLIVAN, MO *												
31-33	Manufacturing	-	18	9	816	18 371	598	1 210	10 799	39 201	30 270	69 208	1 413
	SUNSET HILLS, MO												
31-33	Manufacturing	-	25	10	1 127	38 826	764	1 489	19 302	66 725	55 963	123 108	1 934
	TRENTON, MO												
31-33	Manufacturing	1	10	3	f	D	D	D	D	D	D	D	D
311	Food mfg	-	4	1	f	D	D	D	D	D	D	D	D
	TROY, MO												
31-33	Manufacturing	-	12	5	681	19 988	533	1 057	13 616	82 273	59 930	137 283	5 399
	UNION, MO												
31-33	Manufacturing	-	29	12	1 394	36 607	1 166	2 761	27 347	196 083	153 937	349 933	5 703
	VALLEY PARK, MO												
31-33	Manufacturing	-	18	9	529	16 186	387	796	11 336	39 441	39 654	79 668	2 768
	WARRENSBURG, MO												
31-33	Manufacturing	-	9	4	934	20 981	712	1 116	12 259	57 126	52 218	106 577	2 447
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
	WARRENTON, MO												
31-33	Manufacturing	-	8	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
WASHINGTON, MO													
31-33	Manufacturing	-	47	27	3 867	102 948	2 992	5 452	68 661	298 681	227 352	523 306	16 041
323	Printing & related support activities.....	-	11	4	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	11	4	f	D	D	D	D	D	D	D	D
32311	Printing	-	11	4	f	D	D	D	D	D	D	D	D
323118	Blankbook, looseleaf binder, & device mfg ..	-	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	4	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	6	5	533	20 647	408	854	14 572	48 799	29 096	74 295	551
WEBB CITY, MO													
31-33	Manufacturing	1	24	8	758	17 277	523	952	8 806	30 055	30 939	61 760	1 291
WELLSTON, MO													
31-33	Manufacturing	-	14	3	632	26 953	487	1 245	21 900	128 524	75 948	203 136	3 343
WENTZVILLE, MO													
31-33	Manufacturing	-	16	4	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	2	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
WEST PLAINS, MO													
31-33	Manufacturing	-	27	13	2 273	47 298	1 900	3 646	36 683	168 465	173 837	351 001	7 237
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D

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

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
MISSOURI		MISSOURI—Con.	
Companies ¹	6 880	Quantity of electricity purchased for heat and power	13 908 741
All establishments	7 497	Quantity of electricity generated less sold for heat and power	28 841
Establishments with 1 to 19 employees	4 999	Total value of shipments	\$1,000.. 93 115 478
Establishments with 20 to 99 employees	1 725	Value of resales	\$1,000.. 2 599 063
Establishments with 100 employees or more	773	Value added	\$1,000.. 43 186 072
All employees	371 448	Total inventories, beginning of year	\$1,000.. 9 787 180
Total compensation ²	\$1,000.. 14 687 162	Finished goods inventories, beginning of year	\$1,000.. 2 558 858
Annual payroll	\$1,000.. 11 647 050	Work-in-process inventories, beginning of year	\$1,000.. 4 038 372
Total fringe benefits	\$1,000.. 3 040 112	Materials and supplies inventories, beginning of year	\$1,000.. 3 189 950
Production workers, average for year	270 297	Total inventories, end of year	\$1,000.. 7 402 700
Production workers on March 12	269 250	Finished goods inventories, end of year	\$1,000.. 2 584 170
Production workers on May 12	268 831	Work-in-process inventories, end of year	\$1,000.. 1 663 263
Production workers on August 12	271 337	Materials and supplies inventories, end of year	\$1,000.. 3 155 267
Production workers on November 12	271 770	Gross book value of total assets at beginning of year	\$1,000.. 26 396 009
Production-worker hours	\$1,000.. 531 283	Total capital expenditures (new and used)	\$1,000.. 2 655 646
Production-worker wages	\$1,000.. 7 197 340	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 445 023
Total cost of materials	\$1,000.. 47 579 227	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 2 210 623
Cost of materials, parts, containers, etc., consumed	\$1,000.. 44 303 161	Total retirements ²	\$1,000.. 886 620
Cost of resales	\$1,000.. 1 654 552	Gross book value of total assets at end of year	\$1,000.. 28 165 035
Cost of fuels	\$1,000.. 359 311	Total depreciation during year ²	\$1,000.. 1 973 996
Cost of purchased electricity	\$1,000.. 675 238	Total rental payments ²	\$1,000.. 621 976
Cost of contract work	\$1,000.. 586 965	Buildings and other structures rental payments ²	\$1,000.. 209 294
		Machinery and equipment rental payments ²	\$1,000.. 412 682

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 skillet) or stamped without further fabrication).

332211 Cutlery and Flatware (Except Precious) Manufacturing

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

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarily engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

The data published with NAICS code 332212 include the following SIC industries:

- 3423 Hand and edge tools, n.e.c.
- 3523 Farm machinery and equipment (pt)
- 3524 Lawn and garden equipment (pt)
- 3545 Machine tool accessories (pt)
- 3699 Electrical equipment and supplies, n.e.c. (pt)
- 3799 Transportation equipment, n.e.c. (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing nonpowered handsaws and/or (2) manufacturing saw blades, all types (including those for power sawing machines).

The data published with NAICS code 332213 include the following SIC industry:

- 3425 Saw blades and handsaws

332214 Kitchen Utensil, Pot, and Pan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

The data published with NAICS code 332214 include the following SIC industry:

- 3469 Metal stampings, n.e.c. (pt)

3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, Ornamental and Architectural Metal Products Manufacturing.

33231 Plate Work and Fabricated Structural Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) prefabricated metal buildings, panels, and sections; (2) structural metal products; and (3) metal plate work products.

332311 Prefabricated Metal Building and Component Manufacturing

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

The data published with NAICS code 332311 include the following SIC industry:

- 3448 Prefabricated metal buildings

332312 Fabricated Structural Metal Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

The data published with NAICS code 332312 include the following SIC industries:

- 3441 Fabricated structural metal
- 3449 Miscellaneous metal work (pt)

332313 Plate Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

The data published with NAICS code 332313 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33232 Ornamental and Architectural Metal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) metal framed windows (i.e., typically using purchased glass) and metal doors; (2) sheet metal work; and (3) ornamental and architectural metal products.

332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

- 2499 Wood products, n.e.c. (pt)
- 3442 Metal doors, sash, and trim
- 3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

The data published with NAICS code 332322 include the following SIC industry:

- 3444 Sheet metal work (pt)

332323 Ornamental and Architectural Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

The data published with NAICS code 332323 include the following SIC industries:

- 3446 Architectural metal work
- 3449 Miscellaneous metal work (pt)
- 3523 Farm machinery and equipment (pt)

3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing.

33241 Power Boiler and Heat Exchanger Manufacturing

This industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

332410 Power Boiler and Heat Exchanger Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

The data published with NAICS code 332410 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33242 Metal Tank (Heavy Gauge) Manufacturing

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332420 Metal Tank (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

The data published with NAICS code 332420 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33243 Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing

This industry comprises establishments primarily engaged in forming light gauge metal containers.

332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

The data published with NAICS code 332431 include the following SIC industry:

- 3411 Metal cans

332439 Other Metal Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

The data published with NAICS code 332439 include the following SIC industries:

- 3412 Metal barrels, drums, and pails
- 3429 Hardware, n.e.c. (pt)
- 3444 Sheet metal work (pt)
- 3499 Fabricated metal products, n.e.c. (pt)
- 3537 Industrial trucks and tractors (pt)

3325 Hardware Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

33251 Hardware Manufacturing

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

332510 Hardware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

The data published with NAICS code 332510 include the following SIC industries:

- 3429 Hardware, n.e.c. (pt)
- 3499 Fabricated metal products, n.e.c. (pt)

3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

33261 Spring and Wire Product Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing steel springs by forming, such as cutting, bending, and heat winding metal rod or strip stock and/or (2) manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock.

The data published with NAICS code 332611 include the following SIC industry:

- 3493 Steel springs, except wire

332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

The data published with NAICS code 332612 include the following SIC industry:

- 3495 Wire springs (pt)

332618 Other Fabricated Wire Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

The data published with NAICS code 332618 include the following SIC industries:

- 3315 Steel wire and related products (pt)
- 3399 Primary metal products, n.e.c. (pt)
- 3496 Miscellaneous fabricated wire products

3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332710 Machine Shops

This U.S. industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

The data published with NAICS code 332710 include the following SIC industry:

- 3599 Industrial machinery, n.e.c. (pt)

33272 Turned Product and Screw, Nut, and Bolt Manufacturing

This industry comprises establishments primarily engaged in (1) machining precision turned products or (2) manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners. Included in this industry are establishments primarily engaged manufacturing parts for machinery and equipment on a customized basis.

332721 Precision Turned Product Manufacturing

This U.S. industry comprises establishments known as precision turned manufacturers primarily engaged in machining precision products of all materials on a job or order basis. Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, and washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

33281 Coating, Engraving, Heat Treating, and Allied Activities

This industry comprises establishments primarily engaged in one or more of the following: (1) heat treating metals and metal products; (2) enameling, lacquering, varnishing metals and metal products; (3) hot dip galvanizing metals and metal products; (4) engraving, chasing, or

etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (5) powder coating metals and metal products; (6) electroplating, plating, anodizing, coloring, and finishing metals and metal products; and (7) providing other metal surfacing services for the trade. Establishments in this industry coat engravings and heat treat metals and metal formed products fabricated elsewhere.

332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

332812 Metal Coating, Engraving (Except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) enameling, lacquering, and varnishing metals and metal products; (2) hot dip galvanizing metals and metal products; (3) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (4) powder coating metals and metal products; and (5) providing other metal surfacing services for the trade.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3329 Other Fabricated Metal Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

33291 Metal Valve Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves: (1) industrial valves; (2) fluid power valves and hose fittings; (3) plumbing fixture fittings and trim; and (4) other metal valves and pipe fittings.

332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

332913 Plumbing Fixture Fitting and Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33299 All Other Fabricated Metal Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

332991 Ball and Roller Bearing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 Small arms ammunition

332993 Ammunition (Except Small Arms) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

332996 Fabricated Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating (such as cutting, threading and bending) metal pipes and pipe fittings made from purchased metal pipe.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 Industrial patterns

332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

The data published with NAICS code 332998 include the following SIC industry:

3431 Metal sanitary ware

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts, and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fire-place fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333 Machinery Manufacturing

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it

typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special-purpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, Mining and Oil and Gas Field Machinery Manufacturing.

33311 Agricultural Implement Manufacturing

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

333111 Farm Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

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

NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

33312 Construction Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 Construction Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

33313 Mining and Oil and Gas Field Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks and (2) manufacturing water well drilling machinery.

The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

3332 Industrial Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, Other Industrial Machinery Manufacturing.

33321 Sawmill and Woodworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

333210 Sawmill and Woodworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking machinery

33322 Plastics and Rubber Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333220 Plastics and Rubber Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

33329 Other Industrial Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, type-setting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

333295 Semiconductor Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

33331 Commercial and Service Industry Machinery Manufacturing

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

333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing coin, token, currency, or magnetic card operated vending machines and/or (2) manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

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

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

333313 Office Machinery Manufacturing

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

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

333314 Optical Instrument and Lens Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing optical instruments and lens, such as binoculars, microscopes (except electron, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

333315 Photographic and Photocopying Equipment Manufacturing

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

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

333319 Other Commercial and Service Industry Machinery Manufacturing

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

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

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

333411 Air Purification Equipment Manufacturing

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

The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

333412 Industrial and Commercial Fan and Blower Manufacturing

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

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

333414 Heating Equipment (Except Warm Air Furnaces) Manufacturing

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

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333415 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or (2) manufacturing commercial and industrial refrigeration and freezer equipment.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

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

NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

33351 Metalworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

333511 Industrial Mold Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

333513 Machine Tool (Metal Forming Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging and die-casting machines.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333515 Cutting Tool and Machine Tool Accessory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

333516 Rolling Mill Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

333518 Other Metalworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

33361 Engine, Turbine, and Power Transmission Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive gasoline and aircraft).

333611 Turbine and Turbine Generator Set Units Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft); and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

333613 Mechanical Power Transmission Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, All Other General-Purpose Machinery Manufacturing.

33391 Pump and Compressor Manufacturing

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general-purpose air and gas compressors, nonagricultural spraying and dusting equipment, general-purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

333911 Pump and Pumping Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps and sump pumps.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

333912 Air and Gas Compressor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

333913 Measuring and Dispensing Pump Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

The data published with NAICS code 333913 include the following SIC industry:

3586 Measuring and dispensing pumps

33392 Material Handling Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

333921 Elevator and Moving Stairway Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

333922 Conveyor and Conveying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type) such as forklifts, pallet loaders and unloaders, and portable loading docks.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33399 All Other General-Purpose Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

333991 Power-Driven Handtool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

333992 Welding and Soldering Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

333994 Industrial Process Furnace and Oven Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

333995 Fluid Power Cylinder and Actuator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333996 Fluid Power Pump and Motor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333996 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

333999 All Other Miscellaneous General-Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery;

engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

334 Computer and Electronic Product Manufacturing

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

3341 Computer and Peripheral Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

33411 Computer and Peripheral Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

334111 Electronic Computer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

334112 Computer Storage Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

334113 Computer Terminal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

334119 Other Computer Peripheral Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

3342 Communications Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, Other Communications Equipment Manufacturing.

33421 Telephone Apparatus Manufacturing

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

334210 Telephone Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

33429 Other Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

334290 Other Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

33431 Audio and Video Equipment Manufacturing

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

334310 Audio and Video Equipment Manufacturing

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

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

33441 Semiconductor and Other Electronic Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products

made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

334411 Electron Tube Manufacturing

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

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

334412 Bare Printed Circuit Board Manufacturing

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

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

334413 Semiconductor and Related Device Manufacturing

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

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

334414 Electronic Capacitor Manufacturing

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

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

334415 Electronic Resistor Manufacturing

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

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

334416 Electronic Coil, Transformer, and Other Inductor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334417 Electronic Connector Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial, cylindrical, rack and panel, pin and sleeve, printed circuit and fiber optic.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334419 Other Electronic Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers and other inductors; connectors; and loaded printed circuit boards).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electro-medical laser products.

334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration and appliances.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display or control (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

334514 Totalizing Fluid Meter and Counting Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made

by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

334516 Analytical Laboratory Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

334517 Irradiation Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

334518 Watch, Clock, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334519 Other Measuring and Controlling Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical Media.

33461 Manufacturing and Reproducing Magnetic and Optical Media

This industry comprises establishments primarily engaged in (1) manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or (2) mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

334611 Software Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software; they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

334612 Prerecorded Compact Disc (Except Software), Tape, and Record Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

334613 Magnetic and Optical Recording Media Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

33511 Electric Lamp Bulb and Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335110 Electric Lamp Bulb and Part Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

33512 Lighting Fixture Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics) and lighting fixture components (except current-carrying wiring devices).

335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

The data published with NAICS code 335121 include the following SIC industries:

- 3089 Plastics products, n.e.c. (pt)
- 3645 Residential lighting fixtures
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

The data published with NAICS code 335122 include the following SIC industry:

- 3646 Commercial lighting fixtures

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

- 3648 Lighting equipment, n.e.c.
- 3699 Electrical equipment and supplies, n.e.c. (pt)

3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, Major Appliance Manufacturing.

33521 Small Electrical Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

The data published with NAICS code 335211 include the following SIC industry:

- 3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

The data published with NAICS code 335212 include the following SIC industries:

- 3635 Household vacuum cleaners
- 3639 Household appliances, n.e.c. (pt)

33522 Major Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

335221 Household Cooking Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

The data published with NAICS code 335221 include the following SIC industry:

- 3631 Household cooking equipment

335222 Household Refrigerator and Home Freezer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

3353 Electrical Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

33531 Electrical Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

335312 Motor and Generator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 Switchgear and switchboard apparatus

335314 Relay and Industrial Control Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 Battery Manufacturing

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

335911 Storage Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

33592 Communication and Energy Wire and Cable Manufacturing

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

335929 Other Communication and Energy Wire Manufacturing

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

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

33593 Wiring Device Manufacturing

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

335931 Current-Carrying Wiring Device Manufacturing

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

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

335932 Noncurrent-Carrying Wiring Device Manufacturing

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

The data published with NAICS code 335932 include the following SIC industry:

3644 Noncurrent-carrying wiring devices

33599 All Other Electrical Equipment and Component Manufacturing

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

335991 Carbon and Graphite Product Manufacturing

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

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and graphite products

335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

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

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

336 Transportation Equipment Manufacturing

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

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

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

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

3361 Motor Vehicle Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or (2) manufacturing chassis only.

336111 Automobile Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete automobiles (i.e., body and chassis or unibody) or (2) manufacturing automobile chassis only.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

336112 Light Truck and Utility Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or (2) manufacturing light truck and utility vehicle chassis only. Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

33621 Motor Vehicle Body and Trailer Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing motor vehicle bodies and cabs or (2) manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies and detachable trailer chassis. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

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

336211 Motor Vehicle Body Manufacturing

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

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

336212 Truck Trailer Manufacturing

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

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

336213 Motor Home Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing motor homes on purchased chassis and/or (2) manufacturing conversion vans on an assembly line basis. Motor homes are units where the motor and the living quarters are integrated in the same unit.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

336214 Travel Trailer and Camper Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing travel trailers and campers designed to attach to motor vehicles; (2) manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and (3) manufacturing automobile, utility, and light-truck trailers. Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

3363 Motor Vehicle Parts Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

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

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and valves

336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33632 Motor Vehicle Electrical and Electronic Equipment Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing vehicular lighting and/or (2) manufacturing and/or rebuilding motor vehicle electrical and electronic equipment. The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, ships).

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33633 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336330 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33634 Motor Vehicle Brake System Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336340 Motor Vehicle Brake System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

33635 Motor Vehicle Transmission and Power Train Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33636 Motor Vehicle Seating and Interior Trim Manufacturing

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336360 Motor Vehicle Seating and Interior Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

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

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33637 Motor Vehicle Metal Stamping

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336370 Motor Vehicle Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

33639 Other Motor Vehicle Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

336391 Motor Vehicle Air-Conditioning Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

336399 All Other Motor Vehicle Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3364 Aerospace Product and Parts Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

33641 Aerospace Product and Parts Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing complete aircraft, missiles, or space vehicles; (2) manufacturing aerospace engines, propulsion units, auxiliary equipment or parts; (3) developing and making prototypes of aerospace products; (4) aircraft conversion (i.e., major modifications to systems); and (5) complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336411 Aircraft Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing or assembling complete aircraft; (2) developing and making aircraft prototypes; (3) aircraft conversion (i.e., major modifications to systems); and (4) complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

336412 Aircraft Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing aircraft engines and engine parts; (2) developing and making prototypes of aircraft engines and engine parts; (3) aircraft propulsion system conversion (i.e., major modifications to systems); and (4) aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or (2) developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

336414 Guided Missile and Space Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete guided missiles and space vehicles and/or (2) developing and making prototypes of guided missile or space vehicles.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and space vehicles

336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or (2) developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and parts

336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or (2) developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

33651 Railroad Rolling Stock Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336510 Railroad Rolling Stock Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames, and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

33661 Ship and Boat Building

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

336612 Boat Building

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

3369 Other Transportation Equipment Manufacturing

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 Other Transportation Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 Motorcycle, Bicycle, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment and parts.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

336992 Military Armored Vehicle, Tank, and Tank Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

336999 All Other Transportation Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

337 Furniture and Related Product Manufacturing

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the

equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair, a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knock-down). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 Household and Institutional Furniture and Kitchen Cabinet Manufacturing

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen, and bedroom furniture, and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 Wood Kitchen Cabinet and Countertop Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337110 Wood Kitchen Cabinet and Countertop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood countertops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33712 Household and Institutional Furniture Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337121 Upholstered Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337122 Nonupholstered Wood Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337125 Household Furniture (Except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed,

rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

337127 Institutional Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

33721 Office Furniture (Including Fixtures) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

337212 Custom Architectural Woodwork and Millwork Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

337214 Office Furniture (Except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

2542 Partitions and fixtures, except wood

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or non-wood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3379 Other Furniture Related Product Manufacturing

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 Mattress Manufacturing

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 Mattress Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

33792 Blind and Shade Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 Blind and Shade Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

339 Miscellaneous Manufacturing

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 Medical Equipment and Supplies Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

33911 Medical Equipment and Supplies Manufacturing

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

339111 Laboratory Apparatus and Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339112 Surgical and Medical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electromedical, and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

339113 Surgical Appliance and Supplies Manufacturing

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

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339114 Dental Equipment and Supplies Manufacturing

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

The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

339115 Ophthalmic Goods Manufacturing

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

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

339116 Dental Laboratories

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

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

3399 Other Miscellaneous Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry; (2) manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and (3) stamping coins.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

339912 Silverware and Holloware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (2) cutting, slabbing, tumbling, carving, engraving, polishing or faceting precious or semiprecious stones and gems; (3) recutting, repolishing, and setting gem stones; and (4) drilling, sawing, and peeling cultured pearls.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing, engraving, chasing, and etching costume jewelry; and/or (2) manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases). This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

33992 Sporting and Athletic Goods Manufacturing

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 Sporting and Athletic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33993 Doll, Toy, and Game Manufacturing

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes, action figures, and stuffed toys.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include

establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33994 Office Supplies (Except Paper) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

339942 Lead Pencil and Art Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 Carbon paper and inked ribbons

33995 Sign Manufacturing

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

339950 Sign Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

33999 All Other Miscellaneous Manufacturing

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

339991 Gasket, Packing, and Sealing Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

339993 Fastener, Button, Needle, and Pin Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

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

3991 Brooms and brushes

339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

339999 All Other Miscellaneous Manufacturing

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical

equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

The data published with NAICS code 339999 include the following SIC industries:

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

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C.

Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

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

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these

establishments but were included in the product and material “not specified by kind” (nsc) categories.

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

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

- a. ASM sample establishments.

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

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

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

The report form also contained a materials-consumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

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

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

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

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

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

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no “resistance rules” or “frozen industries.”

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

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

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

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

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

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

ESTABLISHMENT BASIS OF REPORTING

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

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D.

Geographic Notes

MISSOURI

Cameron is in Clinton and DeKalb Counties.

Cape Girardeau is in Cape Girardeau and Scott Counties.

Centralia is in Audrain and Boone Counties.

Crawford County is the only county outside New England that is split by an MA boundary. Sullivan city, in Crawford and Franklin Counties, is completely within the St. Louis, MO-IL MSA; the remainder of Crawford County outside of Sullivan city is not in any MA. However, Crawford County is excluded from economic census data tabulations for the St. Louis, MO-IL MSA.

Excelsior Springs is in Clay and Ray Counties.

Hannibal is in Marion and Ralls Counties.

Independence is in Clay and Jackson Counties.

Jefferson City is in Callaway and Cole Counties.

Joplin is in Jasper and Newton Counties.

Kansas City is in Cass, Clay, Jackson, and Platte Counties.

Lee's Summit is in Cass and Jackson Counties.

Marceline is in Chariton and Linn Counties.

Monett is in Barry and Lawrence Counties.

Monroe City is in Marion, Monroe, and Ralls Counties.

Mountain Grove is in Texas and Wright Counties.

Oak Grove is in Jackson and Lafayette Counties.

Osage Beach is in Camden and Miller Counties.

Park Hills resulted from the merger of Flat River (reported in the 1992 Economic Census) and Elvins, Esther, and Rivermines (not populous enough for separate tabulation in the 1992 Economic Census) in January 1994.

Pacific is in Franklin and St. Louis Counties.

Portageville is in New Madrid and Pemiscot Counties.

Scott City is in Cape Girardeau and Scott Counties.

Sikeston is in New Madrid and Scott Counties.

Springfield is in Christian and Greene Counties.

Sugar Creek is in Clay and Jackson Counties.

Sullivan is in Crawford and Franklin Counties; see "Crawford County."

Vanadalia is in Audrain and Ralls Counties.

Wildwood was incorporated in September 1995.

Windsor is in Henry and Pettis Counties.

Appendix E. Metropolitan Areas

MISSOURI

Columbia, MO MSA

Boone County, MO

Joplin, MO MSA

Jasper County, MO

Newton County, MO

Kansas City, MO—KS MSA

Johnson County, KS

Leavenworth County, KS

Miami County, KS

Wyandotte County, KS

Cass County, MO

Clay County, MO

Clinton County, MO

Jackson County, MO

Lafayette County, MO

Platte County, MO

Ray County, MO

St. Joseph, MO MSA

Andrew County, MO

Buchanan County, MO

St. Louis, MO—IL MSA

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

Lincoln County, MO

St. Charles County, MO

St. Louis County, MO

Warren County, MO

St. Louis, MO (IC)

Springfield, MO MSA

Christian County, MO

Greene County, MO

Webster County, MO

