

South Carolina

1997

Issued May 2000

EC97M31A-SC

1997 Economic Census

Manufacturing

Geographic Area Series



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ACKNOWLEDGMENTS

The staff of the Manufacturing and Construction Division prepared this report. **Judy M. Dodds**, Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination. **Robert Reinard**, Chief, Consumer Goods Industries Branch, assisted by **Suzanne Conard**, **Kaylene Hanks**, and **Robert Miller**, Section Chiefs, **Kenneth Hansen**, Chief, Investment Goods Industries Branch, assisted by **Mike Brown**, **Raphael Corrado**, and **Milbren Thomas**, Section Chiefs, **Nathaniel Shelton**, Chief, Primary Goods Industries Branch, assisted by **Renee Coley**, **Allen Foreman**, and **Joanna Nguyen**, Section Chiefs, and **Tom Lee**, **Robert Rosati**, and **Tom Flood**, Special Assistants, performed the planning and implementation. **Stephanie Angel**, **Brian Appert**, **Stanis Batton**, **Carol Beasley**, **Chris Blackburn**, **Larry Blumberg**, **Vera Harris-Bourne**, **Dana Brooks**, **Phillip Brown**, **Brenda Campbell**, **Vance Davis**, **Mary Ellickson**, **Matt Gaines**, **Merry Glascoe**, **Karen Harshbarger**, **Nancy Higgins**, **James Hinckley**, **Walter Hunter**, **Jim Jamski**, **Evelyn Jordan**, **Jacqueline Keller**, **Marc Klein**, **Robert Lee**, **John Linehan**, **Paul Marck**, **Keith McKenzie**, **Philippe Morris**, **Betty Pannell**, **Joyce Pomeroy**, **Cynthia Ramsey**, **Chris Savage**, **Arona Stovall**, **Sue Sundermann**, **Michael Taylor**, **Thanos Theodoropoulos**, **Dora Thomas**, **Ann Truffa**, **Ronanne Vinson**, **Keeley Voor**, **Denneth Wallace**, **Tempie Whittington**, **Lissene Witt**, **Phillip Woods**, and **Mike Yamaner** provided primary staff assistance.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, Chief, Manufacturing Programs Methodology Branch, and **Robert Struble**, Section Chief, provided the mathematical and statistical techniques as well as the coverage operations. **Jeffrey Dalzell** and **Cathy Ritenour** provided primary staff assistance.

Mendel D. Gayle, Chief, Forms, Publications, and Customer Services Branch, assisted by **Julius Smith Jr.** and **Baruti Taylor**, Section Chiefs, performed overall

coordination of the publication process.

Kim Credito, **Patrick Duck**, **Chip Murph**, **Wanda Sledd**, and **Veronica White** provided primary staff assistance.

The Economic Planning and Coordination Division, **Lawrence A. Blum**, Assistant Chief for Collection Activities and **Shirin A. Ahmed**, Assistant Chief for Post-Collection Processing, assisted by **Dennis Shoemaker**, Chief, Post-Collection Census Processing Branch, **Brandy Yarbrough**, Section Chief, **Sheila Proudfoot**, **Richard Williamson**, **Keith Fuller**, **Andrew W. Hait**, and **Jennifer E. Lins**, was responsible for developing the systems and procedures for data collection, editing, review, correction, and dissemination.

The staff of the National Processing Center, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, assisted by **Barbara Lambert** and **Lisa Draper** were responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufacturing and Construction Branch, **Lori A. Guido** and **Roy A. Smith**, Section Chiefs, supervised the preparation of the computer programs.

Computer Services Division, **Debra Williams**, Chief, performed the computer processing.

Kim D. Ottenstein and **Cynthia G. Brooks** of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, provided publications and printing management, graphics design and composition, and editorial review for print and electronic media. General direction and production management were provided by **Michael G. Garland**, Assistant Chief, and **Gary J. Lauffer**, Chief, Publications Services Branch.

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U.S. Department of Commerce

William M. Daley,

Secretary

Robert L. Mallett,

Deputy Secretary

Economics

and Statistics

Administration

Robert J. Shapiro,

Under Secretary for

Economic Affairs

U.S. CENSUS BUREAU

Kenneth Prewitt,

Director



**Economics
and Statistics
Administration**

Robert J. Shapiro,
Under Secretary
for Economic Affairs



U.S. CENSUS BUREAU

Kenneth Prewitt,
Director

William G. Barron,
Deputy Director

Paula J. Schneider,
Principal Associate Director
for Programs

Frederick T. Knickerbocker,
Associate Director
for Economic Programs

Thomas L. Mesenbourg,
Assistant Director
for Economic Programs

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

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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information

52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Foodservices
81	Other Services (except Public Administration)

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

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

RELATIONSHIP TO SIC

While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The industry definitions discuss the relationships between NAICS and SIC industries. Where changes are significant, it will not be possible to construct time series that include data for points both before and after 1997.

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

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for the states, metropolitan areas (MAs), counties, parishes, and corporate municipalities including cities, towns, villages, and boroughs. Respondents were

required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from Internal Revenue Service tax forms is used as a basis for coding.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 1997 data are expressed in 1997 dollars, and 1992 data, in 1992 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some covering service trades in 1933. Censuses of construction, manufacturing, and the other business service censuses were suspended during World War II.

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

The range of industries covered in the economic censuses expanded between 1967 and 1992. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census reports printed since 1967 are still available for sale on microfiche from the Census Bureau. CD-ROMs issued from the 1987 and 1992 Economic Censuses contain databases including nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1997 Economic Census and Related Statistics* at www.census.gov/econguide. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1997 Economic Census* at www.census.gov/econ/www/history.html.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 1997 Economic Census data:

A	Standard error of 100 percent or more.
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals.
F	Exceeds 100 percent because data include establishments with payroll exceeding revenue.
N	Not available or not comparable.
Q	Revenue not collected at this level of detail for multiestablishment firms.
S	Withheld because estimates did not meet publication standards.

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

Each industry report presents data for a six-digit North American Industry Classification System (NAICS) industry. A description of the particular NAICS industry may be found in Appendix B. These reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, capital expenditures, etc. Explanations of these and other terms may be found in Appendix A. The industry reports also include data for states with 100 employees or more in the industry.

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

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

The General Summary report contains industry and geographic area statistics summarized in one report. It includes higher levels of aggregation than the industry and state reports, as well as revisions to the data made after the release of the industry and state reports.

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

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

The Location of Manufacturing data files contain statistics on the number of establishments for the three- and six-digit NAICS industry by state, county, place, and ZIP Code by employment-size of the establishment.

GEOGRAPHIC AREAS COVERED

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

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

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

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

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

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

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

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

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

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

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

DISCLOSURE

In accordance with Federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments classified in a specific industry or geography is not considered a disclosure, and may be released even when other information is withheld.

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the economic censuses. The ASM is a probability-based sample of approximately 58,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the economic census. However, there are selected statistics not included in the ASM. Among these are the number of companies and establishments, detailed product and materials data, and substate geographic data.

In addition to the ASM, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. For the 1997 Economic Census – Manufacturing, the annual CIR data are included in the Product Summary report.

The Census Bureau also conducts the monthly Manufacturers' Shipments, Inventories, and Orders (M3) program, which publishes detailed statistics for manufacturing industries at the U.S. level.

Table 1. Industry Statistics for the State: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SOUTH CAROLINA													
31-33	Manufacturing	-	4 450	1 873	346 142	10 369 419	267 548	786 083	6 856 005	33 657 787	37 229 455	70 797 020	3 414 769
311	Food mfg.....	1	195	70	16 257	348 318	13 469	25 278	256 423	1 412 359	1 732 500	3 141 095	50 109
3111	Animal food mfg.....	-	14	4	210	4 587	163	297	3 216	27 756	132 930	160 336	677
31111	Animal food mfg.....	-	14	4	210	4 587	163	297	3 216	27 756	132 930	160 336	677
311119	Other animal food mfg.....	-	13	3	c	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling	1	9	3	153	4 812	115	269	3 336	25 060	141 185	163 764	3 426
31122	Starch & vegetable fats & oils mfg.....	1	7	2	c	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	16	3	f	D	D	D	D	D	D	D	191
31133	Confectionery mfg from purchased chocolate...	-	9	2	f	D	D	D	D	D	D	D	144
311330	Confectionery mfg from purchased chocolate.....	-	9	2	f	D	D	D	D	D	D	D	144
3114	Fruit & vegetable preserving & specialty food mfg.....	-	11	6	1 516	46 439	1 338	2 946	38 205	399 787	219 609	619 485	6 833
31141	Frozen food mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	3	7	3	e	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	9	4	1	c	D	D	D	D	D	D	D	D
311422	Specialty canning.....	-	3	2	c	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	10	6	791	21 454	401	884	9 351	93 491	185 936	280 169	5 570
31151	Dairy product (except frozen) mfg.....	-	6	6	777	21 229	389	869	9 156	92 804	184 903	278 449	5 513
311511	Fluid milk mfg.....	-	5	5	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	1	44	20	8 973	162 730	8 211	14 689	133 223	451 657	700 134	1 153 404	21 919
31161	Animal slaughtering & processing.....	1	44	20	8 973	162 730	8 211	14 689	133 223	451 657	700 134	1 153 404	21 919
311611	Animal (except poultry) slaughtering.....	1	24	7	1 904	32 657	1 713	3 070	23 230	61 133	146 450	208 992	3 510
311612	Meat processed from carcasses.....	8	10	4	e	D	D	D	D	D	D	D	D
311615	Poultry processing.....	1	9	8	6 526	113 996	6 146	10 894	100 275	387 567	491 622	879 355	15 171
3118	Bakeries & tortilla mfg.....	-	65	19	2 775	68 224	1 730	3 209	38 973	226 371	157 619	382 250	7 688
31181	Bread & bakery product mfg.....	-	59	16	2 466	61 566	1 501	2 731	33 958	204 893	120 781	323 748	6 357
311811	Retail bakeries.....	5	43	6	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries.....	-	15	9	2 023	54 668	1 176	2 160	29 309	175 495	112 815	288 555	5 334
31182	Cookie, cracker, & pasta mfg.....	4	6	3	309	6 658	229	478	5 015	21 478	36 838	58 502	1 331
311822	Flour mixes & dough mfg from purchased flour.....	4	3	3	293	6 355	216	461	4 787	20 058	35 782	56 020	1 238
3119	Other food mfg.....	2	19	8	933	24 287	774	1 546	17 991	127 776	162 919	289 889	3 717
31191	Snack food mfg.....	-	3	1	c	D	D	D	D	D	D	D	D
311919	Other snack food mfg.....	-	2	1	c	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	8	5	2	107	3 203	84	160	2 203	17 286	35 518	52 577	D
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	8	5	2	107	3 203	84	160	2 203	17 286	35 518	52 577	D
31199	All other food mfg.....	7	9	4	e	D	D	D	D	D	D	D	1 434
311999	All other miscellaneous food mfg.....	7	8	4	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	17	6	838	25 378	291	682	7 469	93 750	254 364	348 999	5 250
3121	Beverage mfg.....	-	17	6	838	25 378	291	682	7 469	93 750	254 364	348 999	5 250
31211	Soft drink & ice mfg.....	-	14	6	819	24 900	279	661	7 231	91 528	252 292	344 845	5 110
312111	Soft drink mfg.....	-	5	4	734	22 759	239	593	6 590	87 684	249 986	338 624	4 419
313	Textile mills.....	-	342	265	65 568	1 637 976	56 768	362 446	1 279 313	3 873 735	6 094 866	10 028 745	422 587
3131	Fiber, yarn, & thread mills .	-	55	48	10 407	246 965	9 356	266 004	203 193	554 913	1 113 754	1 670 608	66 018
31311	Fiber, yarn, & thread mills.....	-	55	48	10 407	246 965	9 356	266 004	203 193	554 913	1 113 754	1 670 608	66 018
313111	Yarn spinning mills....	1	46	40	8 086	191 646	7 266	261 642	159 880	444 710	673 241	1 117 648	50 317
313112	Yarn texturing, throwing, & twisting mills.....	-	9	8	2 321	55 319	2 090	4 362	43 313	110 203	440 513	552 960	15 701

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)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
313	Textile mills—Con.												
3132	Fabric mills	—	189	159	41 282	1 028 408	36 024	72 554	810 198	2 379 852	3 230 190	5 652 277	283 140
31321	Broadwoven fabric mills .	—	123	104	32 014	814 797	28 665	57 687	665 849	1 853 243	2 497 398	4 389 452	238 187
313210	Broadwoven fabric mills	—	123	104	32 014	814 797	28 665	57 687	665 849	1 853 243	2 497 398	4 389 452	238 187
31322	Narrow fabric mills & schiffli machine embroidery	3	20	16	2 546	47 510	2 217	4 625	35 653	101 936	99 459	201 929	5 786
313221	Narrow fabric mills	2	17	13	1 805	35 742	1 556	3 312	27 300	76 992	85 937	163 192	D
313222	Schiffli machine embroidery	6	3	3	741	11 768	661	1 313	8 353	24 944	13 522	38 737	D
31323	Nonwoven fabric mills ...	—	22	20	2 946	91 066	2 183	4 345	56 945	231 046	335 231	563 396	17 482
313230	Nonwoven fabric mills .	—	22	20	2 946	91 066	2 183	4 345	56 945	231 046	335 231	563 396	17 482
31324	Knit fabric mills	—	24	19	3 776	75 035	2 959	5 897	51 751	193 627	298 102	497 500	21 685
313241	Weft knit fabric mills ..	—	16	13	g	D	D	D	D	D	D	D	6 657
313249	Other knit fabric & lace mills	—	8	6	g	D	D	D	D	D	D	D	15 028
3133	Textile & fabric finishing & fabric coating mills	—	98	58	13 879	362 603	11 388	23 888	265 922	938 970	1 750 922	2 705 860	73 429
31331	Textile & fabric finishing mills	—	92	55	13 258	345 806	10 993	23 034	256 697	905 434	1 720 207	2 641 282	72 414
313311	Broadwoven fabric finishing mills	—	75	43	12 342	321 719	10 204	21 448	239 372	858 050	1 670 382	2 544 230	68 748
313312	Textile & fabric finishing mills	—	17	12	916	24 087	789	1 586	17 325	47 384	49 825	97 052	3 666
31332	Fabric coating mills	—	6	3	621	16 797	395	854	9 225	33 536	30 715	64 578	1 015
313320	Fabric coating mills	—	6	3	621	16 797	395	854	9 225	33 536	30 715	64 578	1 015
314	Textile product mills	—	168	76	14 835	321 679	12 683	25 152	243 804	829 207	1 588 057	2 349 149	57 357
3141	Textile furnishings mills	—	72	36	9 660	204 485	8 646	17 072	166 733	626 708	1 106 075	1 660 105	33 396
31411	Carpet & rug mills	1	16	10	2 392	50 356	2 147	4 196	39 768	124 321	162 264	287 538	11 646
314110	Carpet & rug mills	1	16	10	2 392	50 356	2 147	4 196	39 768	124 321	162 264	287 538	11 646
31412	Curtain & linen mills	—	56	26	7 268	154 129	6 499	12 876	126 965	502 387	943 811	1 372 567	21 750
314121	Curtain & drapery mills	1	29	5	868	14 798	714	1 212	10 671	29 294	32 316	59 675	1 083
314129	Other household textile product mills	—	27	21	6 400	139 331	5 785	11 664	116 294	473 093	911 495	1 312 892	20 667
3149	Other textile product mills ..	—	96	40	5 175	117 194	4 037	8 080	77 071	202 499	481 982	689 044	23 961
31491	Textile bag & canvas mills	1	26	8	369	7 893	281	486	4 624	13 265	12 781	26 072	376
314912	Canvas & related product mills	—	22	7	312	7 089	231	415	4 033	11 853	10 957	22 836	293
31499	All other textile product mills	—	70	32	4 806	109 301	3 756	7 594	72 447	189 234	469 201	662 972	23 585
314991	Rope, cordage, & twine mills	1	8	3	c	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills	—	2	1	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	—	60	28	4 342	97 380	3 350	6 826	63 699	168 292	391 760	564 574	20 531
315	Apparel mfg	1	220	154	17 848	283 192	15 010	27 712	210 522	736 446	703 064	1 425 134	20 726
3151	Apparel knitting mills	—	24	19	3 622	73 340	3 352	6 570	63 681	199 238	277 255	478 552	10 436
31511	Hosiery & sock mills	—	12	9	2 349	49 381	2 200	4 464	43 758	171 150	207 234	379 894	9 342
315111	Sheer hosiery mills	—	7	5	g	D	D	D	D	D	D	D	3 738
315119	Other hosiery & sock mills	—	5	4	g	D	D	D	D	D	D	D	5 604
31519	Other apparel knitting mills	2	12	10	1 273	23 959	1 152	2 106	19 923	28 088	70 021	98 658	1 094
315191	Outerwear knitting mills	2	10	8	g	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills	3	2	2	c	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	1	173	128	13 820	202 643	11 322	20 678	142 123	521 054	413 627	918 411	9 911
31521	Cut & sew apparel contractors	4	103	75	6 517	85 480	5 541	9 699	63 183	124 616	19 404	142 854	3 831
315211	Men's & boys' cut & sew apparel contractors	4	33	25	2 357	30 074	2 038	3 476	22 747	45 400	6 078	51 320	1 110
315212	Women's, girls', & infants' cut & sew apparel contractors ..	3	70	50	4 160	55 406	3 503	6 223	40 436	79 216	13 326	91 534	2 721

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	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg—Con.												
31522	Men's & boys' cut & sew apparel mfg.....	1	29	23	3 648	56 433	2 745	5 029	34 801	221 234	167 735	388 005	1 935
315221	Men's & boys' cut & sew underwear & nightwear mfg.....	9	3	3	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	—	1	1	c	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	—	14	12	2 208	37 953	1 509	2 861	21 413	179 909	115 415	294 954	1 108
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	—	4	3	138	2 656	106	173	1 034	7 689	9 789	16 690	D
315225	Men's & boys' cut & sew work clothing mfg.....	—	1	1	c	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg.....	8	6	3	458	5 281	374	598	3 717	6 155	18 631	24 944	226
31523	Women's & girls' cut & sew apparel mfg.....	—	28	19	2 523	42 285	2 049	4 261	30 353	140 670	173 222	301 025	3 473
315231	Women's & girls' cut/ sew lingerie & nightwear mfg.....	—	6	6	511	9 493	390	918	6 114	9 908	18 539	28 112	797
315232	Women's & girls' cut & sew blouse & shirt mfg.....	1	8	5	750	12 329	648	1 376	9 545	50 813	60 020	97 107	D
315239	Women's & girls' cut & sew other outerwear mfg.....	—	11	8	1 254	20 325	1 004	1 958	14 620	79 642	94 190	175 021	D
31529	Other cut & sew apparel mfg.....	1	13	11	1 132	18 445	987	1 689	13 786	34 534	53 266	86 527	672
315299	All other cut & sew apparel mfg.....	1	11	9	g	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg.....	2	23	7	406	7 209	336	464	4 718	16 154	12 182	28 171	379
31599	Apparel accessories & other apparel mfg.....	2	23	7	406	7 209	336	464	4 718	16 154	12 182	28 171	379
315999	Other apparel accessories & other apparel mfg.....	2	21	6	e	D	D	D	D	D	D	D	D
321	Wood product mfg.....	—	297	123	11 191	282 067	9 365	19 145	203 327	746 286	1 279 088	2 019 531	58 440
3211	Sawmills & wood preservation.....	—	86	46	4 069	114 926	3 422	7 511	82 368	369 183	776 236	1 141 937	37 594
32111	Sawmills & wood preservation.....	—	86	46	4 069	114 926	3 422	7 511	82 368	369 183	776 236	1 141 937	37 594
321113	Sawmills.....	—	71	40	3 268	94 105	2 784	6 135	68 982	310 404	568 635	880 558	31 278
321114	Wood preservation... ..	—	15	6	801	20 821	638	1 376	13 386	58 779	207 601	261 379	6 316
3212	Veneer, plywood, & engineered wood product mfg.....	—	48	31	3 527	91 278	3 001	6 170	67 262	230 194	308 337	536 821	8 570
32121	Veneer, plywood, & engineered wood product mfg.....	—	48	31	3 527	91 278	3 001	6 170	67 262	230 194	308 337	536 821	8 570
321211	Hardwood veneer & plywood mfg.....	1	17	12	1 057	18 548	940	1 780	13 686	44 895	53 969	98 114	2 538
321212	Softwood veneer & plywood mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
321214	Truss mfg.....	—	20	9	f	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg.....	—	8	7	948	28 427	746	1 632	20 749	91 853	102 801	194 915	3 526
3219	Other wood product mfg... ..	1	163	46	3 595	75 863	2 942	5 464	53 697	146 909	194 515	340 773	12 276
32191	Millwork.....	1	66	21	1 896	39 508	1 608	3 037	29 856	77 368	116 475	192 794	8 305
321911	Wood window & door mfg.....	—	21	8	958	22 084	843	1 605	16 880	45 737	78 077	123 808	6 286
321912	Cut stock, resawing lumber, & planing....	1	20	8	617	11 389	508	960	8 777	21 622	27 261	48 257	1 051
321918	Other millwork (including flooring)...	3	25	5	321	6 035	257	472	4 199	10 009	11 137	20 729	968
32192	Wood container & pallet mfg.....	2	51	14	763	12 658	636	1 132	9 750	23 270	27 455	50 662	1 236
321920	Wood container & pallet mfg.....	2	51	14	763	12 658	636	1 132	9 750	23 270	27 455	50 662	1 236
32199	All other wood product mfg.....	1	46	11	936	23 697	698	1 295	14 091	46 271	50 585	97 317	2 735
321991	Manufactured home (mobile home) mfg... ..	—	3	2	e	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg... ..	2	35	8	483	10 752	334	646	6 641	21 939	16 332	38 701	1 451

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SOUTH CAROLINA—Con.													
31-33 Manufacturing—Con.													
322	Paper mfg	—	102	73	14 738	586 227	11 410	24 564	411 794	2 625 831	2 270 076	4 903 653	411 605
3221	Pulp, paper, & paperboard mills	—	10	10	6 673	343 952	5 037	11 309	246 124	1 779 503	1 302 956	3 089 811	341 329
32212	Paper mills	—	5	5	4 324	228 841	3 312	7 710	167 267	1 298 104	896 805	2 201 912	258 789
322121	Paper (except newsprint) mills	—	5	5	4 324	228 841	3 312	7 710	167 267	1 298 104	896 805	2 201 912	258 789
32213	Paperboard mills	—	5	5	2 349	115 111	1 725	3 599	78 857	481 399	406 151	887 899	82 540
322130	Paperboard mills	—	5	5	2 349	115 111	1 725	3 599	78 857	481 399	406 151	887 899	82 540
3222	Converted paper product mfg	—	92	63	8 065	242 275	6 373	13 255	165 670	846 328	967 120	1 813 842	70 276
32221	Paperboard container mfg	—	53	41	4 426	130 074	3 570	7 303	88 410	351 983	473 871	826 212	36 509
322211	Corrugated & solid fiber box mfg.	—	30	27	2 596	80 086	2 028	4 229	49 337	189 150	300 360	488 146	24 337
322212	Folding paperboard box mfg	—	6	4	252	6 500	200	347	4 352	15 921	14 914	31 202	D
322214	Fiber can, tube, drum, & similar products mfg	—	13	6	862	25 267	715	1 387	19 726	55 340	83 593	139 360	7 307
322215	Nonfolding sanitary food container mfg	—	3	3	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	15	11	2 339	79 927	1 845	4 032	54 495	383 933	235 824	617 222	17 706
322222	Coated & laminated paper mfg	—	8	6	1 627	59 249	1 230	2 681	38 031	325 359	165 465	490 019	13 932
322224	Uncoated paper & multiwall bag mfg	—	2	2	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg	—	8	4	370	9 303	287	567	6 761	62 635	153 584	219 579	2 488
322231	Die-cut paper & paperboard office supplies mfg	—	3	1	c	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg	—	3	2	c	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	2	16	7	930	22 971	671	1 353	16 004	47 777	103 841	150 829	13 573
322291	Sanitary paper product mfg	1	4	3	626	14 764	406	849	9 764	30 350	74 162	103 008	11 956
322299	All other converted paper product mfg	4	12	4	304	8 207	265	504	6 240	17 427	29 679	47 821	1 617
323	Printing & related support activities	2	455	73	7 205	195 030	5 248	9 658	122 957	439 824	388 999	823 365	33 030
3231	Printing & related support activities	2	455	73	7 205	195 030	5 248	9 658	122 957	439 824	388 999	823 365	33 030
32311	Printing	2	433	69	6 856	185 219	4 981	9 152	116 544	420 316	381 914	796 732	30 680
323110	Commercial lithographic printing	3	198	37	2 919	79 996	2 054	3 700	48 478	161 450	97 693	255 598	11 953
323111	Commercial gravure printing	—	5	3	g	D	D	D	D	D	D	D	9 411
323112	Commercial flexographic printing	1	8	1	103	2 285	82	121	1 459	5 091	3 269	8 604	D
323113	Commercial screen printing	2	66	14	1 170	24 388	892	1 574	14 386	49 752	38 639	89 164	3 467
323114	Quick printing	3	105	2	573	11 457	385	551	6 934	24 037	13 194	37 211	2 606
323116	Manifold business form printing	2	11	8	565	18 000	379	842	11 087	53 704	86 148	139 157	1 541
323117	Book printing	7	7	2	182	4 501	148	241	3 053	9 310	5 880	15 182	753
323119	Other commercial printing	9	28	2	167	4 047	115	206	2 357	8 355	5 593	13 955	607
32312	Support activities for printing	1	22	4	349	9 811	267	506	6 413	19 508	7 085	26 633	2 350
323122	Prepress services	—	15	4	306	8 815	230	445	5 628	17 594	6 791	24 422	2 108
324	Petroleum & coal products mfg	—	21	5	e	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	21	5	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg	1	18	3	c	D	D	D	D	D	D	D	D
324122	Asphalt shingle & coating materials mfg	2	3	2	c	D	D	D	D	D	D	D	D
32419	Other petroleum & coal products mfg	—	3	2	c	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil & grease mfg	—	3	2	c	D	D	D	D	D	D	D	D

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31-33	SOUTH CAROLINA— Con. Manufacturing— Con.												
325	Chemical mfg	-	254	135	38 471	1 691 822	21 799	43 169	827 604	7 690 737	5 656 792	13 252 603	943 643
3251	Basic chemical mfg	-	59	36	15 551	806 860	5 082	7 044	274 988	3 222 901	1 107 398	4 324 249	474 708
32512	Industrial gas mfg	1	12	4	c	D	D	D	D	D	D	D	33 728
325120	Industrial gas mfg	1	12	4	c	D	D	D	D	D	D	D	33 728
32513	Dye & pigment mfg	-	8	4	430	18 308	222	479	8 556	76 892	101 959	178 911	6 069
325132	Synthetic organic dye & pigment mfg	-	7	4	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	14	7	j	D	D	D	D	D	D	D	18 511
325188	All other basic inorganic chemical mfg	-	14	7	j	D	D	D	D	D	D	D	18 511
32519	Other basic organic chemical mfg	-	25	21	2 568	109 875	1 410	2 751	49 989	886 027	801 964	1 684 893	416 400
325191	Gum & wood chemical mfg	-	2	2	c	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg	-	3	3	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	1	20	16	1 863	80 286	1 024	1 881	36 637	344 798	416 877	761 499	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	39	31	14 879	583 008	11 525	24 661	395 561	2 809 688	2 960 021	5 703 789	354 880
32521	Resin & synthetic rubber mfg	-	15	9	1 784	79 680	1 130	2 406	45 543	379 413	650 556	996 448	58 389
325211	Plastics material & resin mfg	-	12	9	1 755	78 788	1 112	2 374	44 964	377 553	647 724	991 786	57 829
32522	Artificial & synthetic fibers & filaments mfg	-	24	22	13 095	503 328	10 395	22 255	350 018	2 430 275	2 309 465	4 707 341	296 491
325221	Cellulosic organic fiber mfg	-	1	1	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	23	21	j	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg	-	22	6	610	20 531	382	853	10 172	109 783	106 521	206 304	13 309
32531	Fertilizer mfg	1	19	5	e	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg	2	16	4	c	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	3	1	e	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	-	3	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	15	12	2 792	98 110	1 895	4 113	54 847	734 288	461 915	1 178 287	42 922
32541	Pharmaceutical & medicine mfg	-	15	12	2 792	98 110	1 895	4 113	54 847	734 288	461 915	1 178 287	42 922
325411	Medicinal & botanical mfg	-	2	1	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	11	9	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	24	9	431	17 194	252	514	7 049	58 420	65 270	122 525	4 305
32551	Paint & coating mfg	4	14	5	179	7 003	96	186	2 518	18 398	25 674	42 739	2 450
325510	Paint & coating mfg	4	14	5	179	7 003	96	186	2 518	18 398	25 674	42 739	2 450
32552	Adhesive mfg	1	10	4	252	10 191	156	328	4 531	40 022	39 596	79 786	1 855
325520	Adhesive mfg	1	10	4	252	10 191	156	328	4 531	40 022	39 596	79 786	1 855
3256	Soap, cleaning compound, & toilet preparation mfg	-	45	20	1 274	51 050	777	1 600	22 895	169 762	332 156	512 493	26 595
32561	Soap & cleaning compound mfg	-	43	20	g	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	2	14	3	186	5 304	130	243	2 954	16 223	38 033	54 214	1 126
325612	Polish & other sanitation good mfg	9	7	2	c	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	-	22	15	960	42 288	562	1 203	18 080	141 879	283 488	435 728	25 048
3259	Other chemical product mfg	1	50	21	2 934	115 069	1 886	4 384	62 092	585 895	623 511	1 204 956	26 924
32591	Printing ink mfg	4	13	7	406	12 822	213	408	5 627	54 564	74 431	126 918	2 714
325910	Printing ink mfg	4	13	7	406	12 822	213	408	5 627	54 564	74 431	126 918	2 714
32599	All other chemical product & preparation mfg	-	37	14	2 528	102 247	1 673	3 976	56 465	531 331	549 080	1 078 038	24 210
325991	Custom compounding of purchased resin	5	13	3	255	7 037	191	324	4 079	19 077	35 605	54 869	D
325992	Photographic film, paper, plate, & chemical mfg	-	6	4	1 310	53 104	846	2 075	28 879	325 684	340 216	667 088	D
325998	All other miscellaneous chemical product & preparation mfg	-	18	7	963	42 106	636	1 577	23 507	186 570	173 259	356 081	13 509

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)				
31-33	SOUTH CAROLINA— Con. Manufacturing— Con.												
326	Plastics & rubber products mfg	-	248	134	23 541	762 582	19 187	39 186	557 901	2 236 710	2 424 263	4 718 769	234 181
3261	Plastics product mfg	-	187	106	15 244	480 173	12 190	25 653	323 578	1 283 532	1 276 890	2 611 792	171 412
32611	Unsupported plastics film, sheet, & bag mfg ..	-	21	14	3 874	158 856	2 918	6 164	99 204	446 718	419 180	872 772	43 697
326111	Unsupported plastics bag mfg	2	7	4	e	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	2	2	g	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	12	8	1 882	81 227	1 319	2 967	44 161	204 652	255 931	464 522	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	21	13	1 225	40 334	1 069	2 431	28 883	104 035	144 044	246 342	8 754
326121	Unsupported plastics profile shape mfg	-	17	9	915	32 026	815	1 941	22 590	67 247	73 243	139 841	6 057
326122	Plastics pipe & pipe fitting mfg	-	4	4	310	8 308	254	490	6 293	36 788	70 801	106 501	2 697
32613	Laminated plastics plate, sheet, & shape mfg	-	7	5	1 242	46 646	1 005	2 421	35 525	96 162	122 197	219 246	16 493
326130	Laminated plastics plate, sheet, & shape mfg	-	7	5	1 242	46 646	1 005	2 421	35 525	96 162	122 197	219 246	16 493
32614	Polystyrene foam product mfg	-	5	1	240	7 016	198	318	4 367	28 366	14 699	42 113	D
326140	Polystyrene foam product mfg	-	5	1	240	7 016	198	318	4 367	28 366	14 699	42 113	D
32615	Urethane & other foam product (except polystyrene) mfg	-	6	3	353	10 003	233	510	5 057	26 407	35 119	61 694	D
326150	Urethane & other foam product (except polystyrene) mfg	-	6	3	353	10 003	233	510	5 057	26 407	35 119	61 694	D
32616	Plastics bottle mfg	2	10	9	509	14 951	448	1 046	12 072	51 682	63 811	116 248	9 033
326160	Plastics bottle mfg	2	10	9	509	14 951	448	1 046	12 072	51 682	63 811	116 248	9 033
32619	Other plastics product mfg	1	117	61	7 801	202 367	6 319	12 763	138 470	530 162	477 840	1 053 377	76 850
326191	Plastics plumbing fixture mfg	1	15	5	276	5 665	189	356	3 751	11 396	8 264	19 639	247
326199	All other plastics product mfg	1	102	56	7 525	196 702	6 130	12 407	134 719	518 766	469 576	1 033 738	76 603
3262	Rubber product mfg	-	61	28	8 297	282 409	6 997	13 533	234 323	953 178	1 147 373	2 106 977	62 769
32621	Tire mfg	-	22	7	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	6	4	h	D	D	D	D	D	D	D	D
326212	Tire retreading	4	16	3	147	3 149	123	250	2 219	4 550	9 584	14 163	246
32622	Rubber & plastics hoses & belting mfg	-	11	5	g	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg..	-	11	5	g	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	1	28	16	2 791	90 007	2 195	4 223	67 170	309 156	480 063	796 303	23 274
326291	Rubber product mfg for mechanical use	-	11	5	278	7 325	199	367	4 459	13 208	16 316	29 190	822
326299	All other rubber product mfg	1	17	11	2 513	82 682	1 996	3 856	62 711	295 948	463 747	767 113	22 452
327	Nonmetallic mineral product mfg	2	210	83	9 795	320 124	7 714	16 858	229 212	1 138 009	728 853	1 863 827	118 312
3271	Clay product & refractory mfg	-	21	14	2 324	72 758	1 856	4 055	53 836	166 280	64 367	231 382	6 885
32711	Pottery, ceramics, & plumbing fixture mfg ...	1	9	4	1 341	44 707	1 127	2 447	35 369	99 574	34 883	136 119	2 031
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	1	1	f	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg	4	3	3	f	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	12	10	983	28 051	729	1 608	18 467	66 706	29 484	95 263	4 854
327121	Brick & structural clay tile mfg	-	8	8	899	26 413	662	1 521	17 413	62 654	27 693	89 469	4 611
3272	Glass & glass product mfg	3	24	11	3 519	121 357	2 977	6 810	94 218	550 774	337 305	885 103	46 523
32721	Glass & glass product mfg	3	24	11	3 519	121 357	2 977	6 810	94 218	550 774	337 305	885 103	46 523
327211	Flat glass mfg	-	1	1	e	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	5	7	4	g	D	D	D	D	D	D	D	29 495
327215	Glass product mfg made of purchased glass	-	16	6	1 131	37 508	926	2 326	26 866	172 766	118 202	288 775	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg	2	129	46	3 384	108 758	2 435	5 068	69 740	365 699	276 520	641 615	60 132
32731	Cement mfg	—	5	3	543	25 487	391	805	17 259	159 370	67 221	226 549	D
327310	Cement mfg	—	5	3	543	25 487	391	805	17 259	159 370	67 221	226 549	D
32732	Ready-mix concrete mfg.	4	74	22	1 113	31 505	896	1 744	23 344	86 122	112 117	198 746	8 953
327320	Ready-mix concrete mfg	4	74	22	1 113	31 505	896	1 744	23 344	86 122	112 117	198 746	8 953
32733	Concrete pipe, brick, & block mfg	2	19	12	727	23 690	456	1 067	13 244	60 977	54 294	113 975	5 833
327331	Concrete block & brick mfg	3	15	10	e	D	D	D	D	D	D	D	D
327332	Concrete pipe mfg	—	4	2	c	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	1	31	9	1 001	28 076	692	1 452	15 893	59 230	42 888	102 345	D
327390	Other concrete product mfg	1	31	9	1 001	28 076	692	1 452	15 893	59 230	42 888	102 345	D
3279	Other nonmetallic mineral product mfg	1	34	12	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	1	33	11	f	D	D	D	D	D	D	D	D
327992	Ground or treated mineral & earth mfg ..	2	6	4	146	4 573	117	252	2 960	16 127	10 067	26 068	1 020
327999	All other miscellaneous nonmetallic mineral product mfg	—	11	6	266	9 184	208	450	6 102	32 735	34 548	67 189	2 927
331	Primary metal mfg	—	66	34	6 988	258 276	5 676	11 670	188 279	819 458	1 421 860	2 302 360	88 822
3311	Iron & steel mills & ferroalloy mfg	—	11	10	2 612	108 665	2 174	4 530	82 785	446 147	823 407	1 251 747	30 221
33111	Iron & steel mills & ferroalloy mfg	—	11	10	2 612	108 665	2 174	4 530	82 785	446 147	823 407	1 251 747	30 221
331111	Iron & steel mills	—	10	9	g	D	D	D	D	D	D	D	D
331112	Electrometallurgical ferroalloy product mfg	—	1	1	c	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	1	16	5	658	20 803	537	1 116	15 078	44 882	92 954	137 550	D
33122	Rolling & drawing of purchased steel	1	15	5	f	D	D	D	D	D	D	D	D
331222	Steel wire drawing	—	11	5	634	20 086	518	1 089	14 565	42 812	88 557	131 037	D
3313	Alumina & aluminum production & processing ..	—	6	5	1 325	57 402	937	1 900	36 583	151 510	373 468	614 876	D
33131	Alumina & aluminum production & processing	—	6	5	1 325	57 402	937	1 900	36 583	151 510	373 468	614 876	D
331312	Primary aluminum production	—	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	—	2	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	3	3	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	9	4	796	24 423	652	1 325	18 283	76 107	62 053	130 725	11 058
33142	Copper rolling, drawing, extruding, & alloying ...	—	1	1	e	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing ..	—	1	1	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	—	8	3	e	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding	—	1	1	c	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	1	7	2	c	D	D	D	D	D	D	D	D
3315	Foundries	—	24	10	1 597	46 983	1 376	2 799	35 550	100 812	69 978	167 462	11 085
33151	Ferrous metal foundries ..	—	10	4	613	18 237	502	873	12 698	39 592	27 477	66 662	2 069
331511	Iron foundries	—	7	3	514	15 867	442	774	11 316	35 081	23 015	57 808	1 600
33152	Nonferrous metal foundries	—	14	6	984	28 746	874	1 926	22 852	61 220	42 501	100 800	9 016
331521	Aluminum die-casting foundries	—	4	2	f	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	—	2	1	c	D	D	D	D	D	D	D	D
331525	Copper foundries (except die-casting) ..	—	3	2	c	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	—	722	231	29 808	861 563	23 510	47 370	599 063	2 398 553	1 958 068	4 340 636	155 174
3321	Forging & stamping	—	22	12	812	27 848	565	1 318	17 718	70 969	94 188	165 029	3 482
33211	Forging & stamping	—	22	12	812	27 848	565	1 318	17 718	70 969	94 188	165 029	3 482
332111	Iron & steel forging	—	3	2	c	D	D	D	D	D	D	D	D
332112	Nonferrous forging	—	3	2	e	D	D	D	D	D	D	D	1 419
332116	Metal stamping	2	13	6	345	9 389	222	462	6 093	17 529	13 609	31 017	1 025
3322	Cutlery & handtool mfg	—	20	10	2 447	69 711	2 073	4 041	52 958	222 691	128 203	355 969	9 181
33221	Cutlery & handtool mfg	—	20	10	2 447	69 711	2 073	4 041	52 958	222 691	128 203	355 969	9 181
332212	Hand & edge tool mfg	—	14	6	1 729	49 525	1 527	3 224	39 724	145 836	88 378	238 396	4 580
332213	Saw blade & handsaw mfg	—	4	4	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	146	54	5 076	142 573	3 702	7 600	88 375	340 065	529 378	866 280	16 313
33231	Plate work & fabricated structural product mfg	—	68	28	3 312	99 342	2 335	4 846	60 003	232 394	433 660	662 662	12 786
332311	Prefabricated metal building & component mfg	2	8	2	140	2 795	83	86	1 551	4 985	4 319	9 222	50
332312	Fabricated structural metal mfg	—	47	20	2 671	84 584	1 861	4 006	50 021	198 334	409 970	605 661	12 065
332313	Plate work mfg	1	13	6	501	11 963	391	754	8 431	29 075	19 371	47 779	671
33232	Ornamental & architectural metal products mfg	1	78	26	1 764	43 231	1 367	2 754	28 372	107 671	95 718	203 618	3 527
332321	Metal window & door mfg	1	11	5	441	10 107	348	680	7 121	25 009	33 558	58 787	400
332322	Sheet metal work mfg	1	42	17	1 063	26 755	858	1 744	17 691	58 093	48 594	106 430	2 406
332323	Ornamental & architectural metal work mfg	1	25	4	260	6 369	161	330	3 560	24 569	13 566	38 401	721
3324	Boiler, tank, & shipping container mfg	—	20	15	1 214	44 049	953	1 927	31 636	131 426	206 857	337 549	7 755
33241	Power boiler & heat exchanger mfg	—	6	5	469	15 429	352	782	9 435	45 515	23 017	69 398	738
332410	Power boiler & heat exchanger mfg	—	6	5	469	15 429	352	782	9 435	45 515	23 017	69 398	738
33242	Metal tank (heavy gauge) mfg	—	6	5	249	8 447	188	351	5 713	13 816	12 532	25 850	2 373
332420	Metal tank (heavy gauge) mfg	—	6	5	249	8 447	188	351	5 713	13 816	12 532	25 850	2 373
33243	Metal can, box, & other metal container (light gauge) mfg	—	8	5	496	20 173	413	794	16 488	72 095	171 308	242 301	4 644
332431	Metal can mfg	—	4	3	e	D	D	D	D	D	D	D	D
3325	Hardware mfg	—	9	7	950	22 940	732	1 361	12 723	68 538	62 266	131 216	2 505
33251	Hardware mfg	—	9	7	950	22 940	732	1 361	12 723	68 538	62 266	131 216	2 505
332510	Hardware mfg	—	9	7	950	22 940	732	1 361	12 723	68 538	62 266	131 216	2 505
3326	Spring & wire product mfg	1	22	9	835	20 253	641	1 318	12 758	60 822	49 358	107 177	8 037
33261	Spring & wire product mfg	1	22	9	835	20 253	641	1 318	12 758	60 822	49 358	107 177	8 037
332618	Other fabricated wire product mfg	1	18	8	742	17 406	562	1 164	10 408	53 579	43 372	93 977	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	347	64	4 521	131 439	3 472	6 195	84 372	257 425	116 547	370 240	19 095
33271	Machine shops	2	318	48	3 737	107 912	2 853	5 018	68 616	201 305	82 822	283 841	13 401
332710	Machine shops	2	318	48	3 737	107 912	2 853	5 018	68 616	201 305	82 822	283 841	13 401
33272	Turned product & screw, nut, & bolt mfg	2	29	16	784	23 527	619	1 177	15 756	56 120	33 725	86 399	5 694
332721	Precision turned product mfg	2	17	11	462	12 132	380	698	8 821	28 356	13 278	39 678	1 768
332722	Bolt, nut, screw, rivet, & washer mfg	1	12	5	322	11 395	239	479	6 935	27 764	20 447	46 721	3 926
3328	Coating, engraving, heat treating, & allied activities	—	48	14	1 447	36 267	1 129	2 218	23 153	72 597	29 323	102 290	2 885
33281	Coating, engraving, heat treating, & allied activities	—	48	14	1 447	36 267	1 129	2 218	23 153	72 597	29 323	102 290	2 885
332811	Metal heat treating	1	5	1	132	2 964	123	172	2 467	11 619	4 039	15 657	704
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	16	4	338	8 821	267	568	5 993	26 012	13 305	39 537	894
332813	Electroplating, plating, polishing, anodizing, & coloring	—	27	9	977	24 482	739	1 478	14 693	34 966	11 979	47 096	1 287

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	—	88	46	12 506	366 483	10 243	21 392	275 370	1 174 020	741 948	1 904 886	85 921
33291	Metal valve mfg.....	—	20	15	3 220	90 718	2 536	5 039	63 116	339 209	176 544	519 507	19 548
332911	Industrial valve mfg...	—	9	9	1 953	54 163	1 600	3 218	40 493	246 276	86 458	337 123	12 416
332912	Fluid power valve & hose fitting mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg.....	2	5	2	136	3 230	112	218	2 482	8 156	11 802	19 563	290
33299	All other fabricated metal product mfg.....	—	68	31	9 286	275 765	7 707	16 353	212 254	834 811	565 404	1 385 379	66 373
332991	Ball & roller bearing mfg.....	—	14	13	6 433	197 600	5 417	11 610	154 628	642 495	400 790	1 036 063	53 892
332994	Small arms mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg.....	—	11	3	f	D	D	D	D	D	D	D	2 735
332999	All other miscellaneous fabricated metal product mfg.....	—	38	14	1 961	47 347	1 616	3 362	35 063	123 808	94 368	209 608	9 404
333	Machinery mfg.....	—	360	147	24 872	783 501	17 558	36 797	472 869	2 541 724	2 946 596	5 517 080	219 626
3331	Agriculture, construction, & mining machinery mfg....	—	16	9	3 835	68 994	2 912	5 909	46 231	195 525	543 935	727 399	28 243
33311	Agricultural implement mfg.....	—	7	3	h	D	D	D	D	D	D	D	25 295
333111	Farm machinery & equipment mfg.....	9	4	1	179	4 137	130	245	3 351	7 641	10 107	17 985	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	—	3	2	h	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	1	7	4	542	15 571	299	581	7 279	43 174	66 578	97 915	D
333120	Construction machinery mfg.....	1	7	4	542	15 571	299	581	7 279	43 174	66 578	97 915	D
33313	Mining & oil & gas field machinery mfg.....	—	2	2	c	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg.....	—	2	2	c	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	1	94	34	3 932	129 230	2 521	5 043	69 216	277 803	222 842	503 545	20 518
33322	Plastics & rubber industry machinery mfg.....	—	4	1	c	D	D	D	D	D	D	D	D
333220	Plastics & rubber industry machinery mfg.....	—	4	1	c	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg.....	1	89	33	3 818	125 269	2 445	4 933	66 759	271 735	209 290	484 736	19 530
333292	Textile machinery mfg.	—	59	27	3 272	104 756	2 191	4 434	58 897	222 976	166 356	394 498	16 376
333298	All other industrial machinery mfg.....	6	16	4	396	15 648	140	283	4 632	38 155	36 441	72 798	2 747
3333	Commercial & service industry machinery mfg ..	—	21	7	1 430	39 070	1 107	2 523	23 380	117 560	154 018	277 149	5 780
33331	Commercial & service industry machinery mfg.....	—	21	7	1 430	39 070	1 107	2 523	23 380	117 560	154 018	277 149	5 780
333311	Automatic vending machine mfg.....	—	2	1	g	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg.....	2	15	5	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	21	8	1 897	51 197	1 531	3 088	34 069	241 775	154 711	399 882	8 818
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	21	8	1 897	51 197	1 531	3 088	34 069	241 775	154 711	399 882	8 818
333411	Air purification equipment mfg.....	3	8	2	107	1 996	83	97	1 172	5 394	5 327	10 633	674
333414	Heating equipment (except warm air furnaces) mfg.....	—	6	2	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	—	6	3	1 164	30 929	1 017	2 083	24 412	182 062	120 258	303 265	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)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3335	Metalworking machinery mfg	-	103	38	4 069	133 801	2 917	6 288	86 365	296 495	205 448	496 301	32 336
33351	Metalworking machinery mfg	-	103	38	4 069	133 801	2 917	6 288	86 365	296 495	205 448	496 301	32 336
333512	Industrial mold mfg ...	-	13	4	593	25 597	415	1 090	16 239	37 806	22 948	61 074	9 215
333514	Machine tool (metal cutting types) mfg ...	-	3	2	c	D	D	D	D	D	D	D	D
333515	Special die & tool, die set, jig, & fixture mfg .	-	43	9	573	16 966	434	806	12 121	30 553	10 801	40 952	2 297
3336	Engine, turbine, & power transmission equipment mfg	-	19	16	3 727	146 451	2 628	5 631	95 457	884 977	1 057 159	1 977 918	90 197
33361	Engine, turbine, & power transmission equipment mfg	-	19	16	3 727	146 451	2 628	5 631	95 457	884 977	1 057 159	1 977 918	90 197
333611	Turbine & turbine generator set unit mfg	-	2	2	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg	-	2	2	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg	-	3	3	c	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	12	9	1 007	30 933	669	1 414	18 774	87 973	212 724	304 856	D
3339	Other general-purpose machinery mfg	-	86	35	5 982	214 758	3 942	8 315	118 151	527 589	608 483	1 134 886	33 734
33391	Pump & compressor mfg	-	2	2	c	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	2	2	c	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	1	23	7	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	3	8	3	311	10 733	175	329	4 414	23 717	26 358	51 004	763
333923	Overhead traveling crane, hoist, & monorail system mfg .	-	7	2	c	D	D	D	D	D	D	D	199
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	-	7	2	264	11 095	157	367	5 544	29 493	65 538	94 361	D
33399	All other general-purpose machinery mfg	-	61	26	4 998	180 460	3 332	7 043	101 206	464 115	478 945	939 996	30 710
333991	Power-driven handtool mfg	-	3	3	1 752	59 593	1 329	3 310	39 987	179 891	228 652	398 221	10 898
333992	Welding & soldering equipment mfg	-	5	2	g	D	D	D	D	D	D	D	2 642
333993	Packaging machinery mfg	-	9	7	924	40 332	571	1 078	21 630	94 297	80 361	178 027	7 112
333994	Industrial process furnace & oven mfg .	4	8	3	159	5 770	121	283	3 142	15 075	8 561	23 280	D
333995	Fluid power cylinder & actuator mfg	-	3	2	c	D	D	D	D	D	D	D	D
333996	Fluid power pump & motor mfg	-	5	3	276	10 228	171	420	4 888	26 173	44 835	72 501	3 382
333997	Scale & balance (except laboratory) mfg	-	2	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	1	26	5	322	10 557	216	425	6 060	18 649	13 984	33 389	1 280
334	Computer & electronic product mfg	-	83	36	14 795	504 263	9 760	19 216	248 786	1 107 727	1 199 286	2 273 671	122 250
3341	Computer & peripheral equipment mfg	-	10	4	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	10	4	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	4	2	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	12	2	495	15 844	318	637	7 010	45 208	28 447	69 963	D
33429	Other communications equipment mfg	-	3	1	e	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	-	3	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)				
31-33	SOUTH CAROLINA— Con. Manufacturing— Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	—	33	18	10 301	321 436	7 066	13 857	170 621	669 972	745 825	1 402 451	97 216
33441	Semiconductor & other electronic component mfg	—	33	18	10 301	321 436	7 066	13 857	170 621	669 972	745 825	1 402 451	97 216
334411	Electron tube mfg	—	2	1	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	—	6	4	660	20 419	483	965	11 548	21 461	48 388	70 111	D
334413	Semiconductor & related device mfg ...	—	2	2	g	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg	—	8	5	6 326	193 042	3 996	7 679	87 782	445 424	310 190	748 449	D
334417	Electronic connector mfg	—	3	2	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	—	10	4	661	15 125	533	1 034	9 887	29 298	36 580	65 877	1 255
3345	Navigational, measuring, medical, & control instruments mfg	—	21	8	1 581	53 434	1 119	2 110	28 856	126 206	155 454	271 420	8 470
33451	Navigational, measuring, medical, & control instruments mfg	—	21	8	1 581	53 434	1 119	2 110	28 856	126 206	155 454	271 420	8 470
334510	Electromedical & electrotherapeutic apparatus mfg	—	4	2	e	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg .	—	3	3	298	11 670	178	338	5 610	22 485	19 666	42 335	1 058
334515	Electricity measuring & testing instrument mfg	—	4	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	1	6	3	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	1	6	3	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	—	2	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	91	57	14 995	455 221	11 100	22 942	281 984	1 424 713	1 755 608	3 162 759	124 482
3351	Electric lighting equipment mfg	—	11	6	1 851	50 400	1 251	2 518	28 910	150 466	159 625	309 322	6 346
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	—	10	5	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	—	5	2	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/ institutional electric lighting fixture mfg ...	1	2	1	c	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	—	6	4	2 906	84 556	2 552	5 659	65 261	255 230	373 418	629 259	16 215
33522	Major appliance mfg ...	—	6	4	2 906	84 556	2 552	5 659	65 261	255 230	373 418	629 259	16 215
335221	Household cooking appliance mfg	—	4	2	f	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg ..	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	42	22	4 182	128 148	2 696	5 847	70 186	327 957	364 877	691 713	16 598
33531	Electrical equipment mfg	—	42	22	4 182	128 148	2 696	5 847	70 186	327 957	364 877	691 713	16 598
335312	Motor & generator mfg	1	16	8	e	D	D	D	D	D	D	D	1 937
335313	Switchgear & switchboard apparatus mfg	—	13	6	1 783	57 968	1 147	3 020	32 641	177 887	210 220	386 059	D
335314	Relay & industrial control mfg	—	11	7	1 840	52 508	1 169	2 062	27 745	118 894	125 709	245 037	5 520
3359	Other electrical equipment & component mfg	—	32	25	6 056	192 117	4 601	8 918	117 627	691 060	857 688	1 532 465	85 323
33591	Battery mfg	—	2	2	g	D	D	D	D	D	D	D	D
335911	Storage battery mfg ...	—	1	1	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	—	1	1	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	8	8	1 863	62 690	1 335	2 828	35 935	245 512	458 312	699 816	22 458
335921	Fiber optic cable mfg ..	—	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	—	6	6	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)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg—Con.												
33593	Wiring device mfg	-	11	8	g	D	D	D	D	D	D	D	16 218
335931	Current-carrying wiring device mfg	-	6	4	511	14 714	438	907	10 383	69 151	49 201	115 637	D
335932	Noncurrent-carrying wiring device mfg	-	5	4	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	11	7	1 357	51 142	906	1 828	28 870	233 022	144 976	367 798	D
335991	Carbon & graphite product mfg	-	4	4	1 018	40 869	676	1 323	23 016	196 261	114 981	300 042	8 139
335999	All other miscellaneous electrical equipment & component mfg	-	7	3	339	10 273	230	505	5 854	36 761	29 995	67 756	D
336	Transportation equipment mfg	-	157	93	22 646	776 170	17 456	36 277	526 347	2 744 270	4 120 129	6 816 951	311 834
3361	Motor vehicle mfg	-	10	5	3 203	154 041	2 407	4 990	105 290	656 246	1 723 519	2 376 082	122 390
33611	Automobile & light duty motor vehicle mfg	-	9	4	h	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	7	2	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	2	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	-	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	-	1	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	2	23	11	492	12 224	327	597	6 334	38 918	55 922	97 017	1 956
33621	Motor vehicle body & trailer mfg	2	23	11	492	12 224	327	597	6 334	38 918	55 922	97 017	1 956
336211	Motor vehicle body mfg	-	4	4	207	4 891	111	188	1 918	24 238	28 701	54 900	673
336212	Truck trailer mfg	3	5	5	156	4 440	133	264	2 935	8 359	15 632	24 017	927
336214	Travel trailer & camper mfg	6	14	2	129	2 893	83	145	1 481	6 321	11 589	18 100	356
3363	Motor vehicle parts mfg	-	76	54	13 858	439 538	10 997	23 656	303 927	1 587 145	1 992 352	3 556 676	167 505
33631	Motor vehicle gasoline engine & engine parts mfg	-	9	8	2 638	88 181	1 932	4 344	56 291	396 945	410 102	798 625	51 883
336311	Carburetor, piston, piston ring, & valve mfg	9	2	2	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	7	6	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	12	10	1 929	49 395	1 565	3 118	31 861	162 861	195 805	360 593	12 532
336321	Vehicular lighting equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	11	9	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	6	5	1 682	55 573	1 348	3 045	40 003	208 996	230 416	441 126	23 821
336340	Motor vehicle brake system mfg	-	6	5	1 682	55 573	1 348	3 045	40 003	208 996	230 416	441 126	23 821
33635	Motor vehicle transmission & power train parts mfg	-	10	9	3 621	129 455	2 881	6 229	96 299	526 266	745 949	1 258 968	43 676
336350	Motor vehicle transmission & power train parts mfg	-	10	9	3 621	129 455	2 881	6 229	96 299	526 266	745 949	1 258 968	43 676
33636	Motor vehicle seating & interior trim mfg	-	3	1	c	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg	-	3	1	c	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	11	7	1 568	50 793	1 308	2 934	36 806	135 373	154 640	289 416	11 037
336370	Motor vehicle metal stamping	-	11	7	1 568	50 793	1 308	2 934	36 806	135 373	154 640	289 416	11 037
33639	Other motor vehicle parts mfg	1	23	13	2 244	61 447	1 820	3 694	39 677	138 247	201 068	335 980	23 755
336391	Motor vehicle air-conditioning mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	1	22	12	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)				
	SOUTH CAROLINA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	-	7	5	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	7	5	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	1	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	1	4	3	e	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	-	1	1	c	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	8	6	1 228	43 767	783	1 480	22 984	98 523	108 559	200 915	7 132
33651	Railroad rolling stock mfg	-	8	6	1 228	43 767	783	1 480	22 984	98 523	108 559	200 915	7 132
336510	Railroad rolling stock mfg	-	8	6	1 228	43 767	783	1 480	22 984	98 523	108 559	200 915	7 132
3366	Ship & boat building	1	28	11	1 928	51 767	1 399	2 773	30 843	120 284	140 677	262 280	4 491
33661	Ship & boat building	1	28	11	1 928	51 767	1 399	2 773	30 843	120 284	140 677	262 280	4 491
336611	Ship building & repairing	4	6	4	899	25 613	633	1 392	16 102	58 469	36 911	95 380	2 679
336612	Boat building	-	22	7	1 029	26 154	766	1 381	14 741	61 815	103 766	166 900	1 812
3369	Other transportation equipment mfg	2	5	1	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	2	5	1	e	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	-	1	1	c	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	194	38	5 450	119 591	4 499	8 342	84 731	282 447	283 064	569 616	11 607
3371	Household & institutional furniture & kitchen cabinet mfg	-	158	22	3 895	77 696	3 347	6 113	61 025	181 417	193 962	379 302	6 089
33711	Wood kitchen cabinet & counter top mfg	3	97	6	615	12 956	518	869	9 498	25 192	18 393	43 380	1 193
337110	Wood kitchen cabinet & counter top mfg ...	3	97	6	615	12 956	518	869	9 498	25 192	18 393	43 380	1 193
33712	Household & institutional furniture mfg	-	61	16	3 280	64 740	2 829	5 244	51 527	156 225	175 569	335 922	4 896
337121	Upholstered household furniture mfg	-	7	1	e	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	35	8	2 049	35 514	1 898	3 216	30 280	82 626	81 680	167 075	3 199
337124	Metal household furniture mfg	1	5	1	c	D	D	D	D	D	D	D	504
337125	Household furniture (except wood & metal) mfg	8	2	2	c	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	12	4	497	12 434	288	548	7 112	30 952	60 811	93 219	929
3372	Office furniture (including fixtures) mfg	1	29	13	1 316	36 711	973	1 846	20 288	88 933	77 944	165 841	3 484
33721	Office furniture (including fixtures) mfg	1	29	13	1 316	36 711	973	1 846	20 288	88 933	77 944	165 841	3 484
337212	Custom architectural woodwork & millwork mfg	-	12	4	378	10 573	260	386	4 414	24 498	11 337	36 029	D
337214	Office furniture (except wood) mfg	-	4	2	c	D	D	D	D	D	D	D	1 005
337215	Showcase, partition, shelving, & locker mfg	-	11	6	703	19 275	531	1 057	11 316	39 463	41 539	80 176	1 182
3379	Other furniture related product mfg	2	7	3	239	5 184	179	383	3 418	12 097	11 158	24 473	2 034
33791	Mattress mfg	-	4	2	c	D	D	D	D	D	D	D	D
337910	Mattress mfg	-	4	2	c	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	244	40	5 934	143 950	4 748	8 961	93 388	444 218	275 275	714 072	21 072
3391	Medical equipment & supplies mfg	3	89	11	1 951	49 758	1 501	2 778	30 651	106 209	68 653	174 708	7 875
33911	Medical equipment & supplies mfg	3	89	11	1 951	49 758	1 501	2 778	30 651	106 209	68 653	174 708	7 875
339112	Surgical & medical instrument mfg	3	8	5	733	18 592	543	1 015	10 903	35 347	23 085	58 413	3 568
339113	Surgical appliance & supplies mfg	1	8	5	880	22 398	693	1 334	14 883	51 655	38 256	89 564	3 624
339116	Dental laboratories ...	7	65	1	318	8 315	251	406	4 597	17 320	6 381	23 899	619

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SOUTH CAROLINA—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg . .	—	155	29	3 983	94 192	3 247	6 183	62 737	338 009	206 622	539 364	13 197
33992	Sporting & athletic goods mfg	—	25	4	1 046	26 127	860	1 687	17 920	115 473	83 879	192 881	4 306
339920	Sporting & athletic goods mfg	—	25	4	1 046	26 127	860	1 687	17 920	115 473	83 879	192 881	4 306
33994	Office supplies (except paper) mfg	—	7	4	457	12 867	397	861	9 742	71 430	34 924	107 676	2 039
339941	Pen & mechanical pencil mfg	—	2	2	c	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg	—	1	1	c	D	D	D	D	D	D	D	D
33995	Sign mfg	2	69	10	786	18 619	560	905	10 438	40 242	22 650	62 568	1 920
339950	Sign mfg	2	69	10	786	18 619	560	905	10 438	40 242	22 650	62 568	1 920
33999	All other miscellaneous mfg	1	41	10	1 623	35 127	1 380	2 638	23 841	107 176	62 064	169 471	4 779
339991	Gasket, packing, & sealing device mfg	1	10	3	875	21 708	742	1 526	15 117	67 334	33 565	101 446	2 078
339993	Fastener, button, needle, & pin mfg	—	1	1	c	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg	—	5	3	209	3 826	180	356	2 218	8 641	13 920	22 656	D
339999	All other miscellaneous mfg	1	19	3	e	D	D	D	D	D	D	D	600

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

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

Table 2. Industry Statistics for Metropolitan Areas: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	AUGUSTA-AIKEN, GA-SC MSA												
	Manufacturing	—	364	149	41 124	1 560 574	25 542	47 026	817 378	6 561 832	3 797 324	10 336 193	463 785
	Augusta-Aiken, GA-SC MSA (GA Part)	—	237	98	19 084	619 348	13 651	26 518	375 719	3 033 447	2 709 616	5 746 519	161 885
	Augusta-Aiken, GA-SC MSA (SC Part)	—	127	51	22 040	941 226	11 891	20 508	441 659	3 528 385	1 087 708	4 589 674	301 900
311	Food mfg	—	17	8	1 666	51 295	1 377	2 862	30 733	186 058	275 429	462 723	5 375
3116	Meat product mfg	—	4	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	4	2	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	—	3	1	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	—	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	6	3	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	—	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	8	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	8	2	2	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	8	2	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	9	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	AUGUSTA-AIKEN, GA-SC MSA—Con.												
	Manufacturing—Con.												
313	Textile mills	-	20	18	5 232	125 075	4 777	7 885	108 452	231 029	556 256	801 161	9 543
3131	Fiber, yarn, & thread mills .	-	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	2	2	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	1	11	10	3 311	74 246	3 009	4 951	63 533	160 786	343 469	502 580	D
31321	Broadwoven fabric mills .	1	8	7	2 917	66 193	2 735	4 466	59 407	139 888	294 153	432 959	3 035
313210	Broadwoven fabric mills	1	8	7	2 917	66 193	2 735	4 466	59 407	139 888	294 153	432 959	3 035
31323	Nonwoven fabric mills . . .	-	3	3	394	8 053	274	485	4 126	20 898	49 316	69 621	D
313230	Nonwoven fabric mills .	-	3	3	394	8 053	274	485	4 126	20 898	49 316	69 621	D
3133	Textile & fabric finishing & fabric coating mills	-	7	6	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	7	6	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	3	2	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills	-	4	4	e	D	D	D	D	D	D	D	D
314	Textile product mills	-	14	4	1 145	17 907	851	1 460	10 309	42 735	42 336	86 062	D
3141	Textile furnishings mills	-	9	3	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	9	3	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills	-	7	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	2	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg	3	8	6	1 339	18 462	1 143	2 016	13 413	40 139	27 106	63 757	D
3152	Cut & sew apparel mfg	3	7	6	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	3	3	3	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	20	7	766	21 986	590	1 257	15 096	49 267	78 203	124 951	8 182
3211	Sawmills & wood preservation	-	7	4	388	12 977	313	746	8 693	24 322	54 333	76 441	4 842
32111	Sawmills & wood preservation	-	7	4	388	12 977	313	746	8 693	24 322	54 333	76 441	4 842
321113	Sawmills	-	5	3	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg . . .	1	11	2	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	9	3 016	159 310	2 418	5 994	122 785	1 100 419	551 800	1 643 833	234 363
3221	Pulp, paper, & paperboard mills	-	5	5	2 619	146 335	2 104	5 313	113 832	1 070 240	502 565	1 565 058	D
32212	Paper mills	-	3	3	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	2	2	g	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	e	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	5	4	397	12 975	314	681	8 953	30 179	49 235	78 775	D
32221	Paperboard container mfg	-	4	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
3231	Printing & related support activities	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
32311	Printing	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
323111	Commercial gravure printing	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	41	26	14 137	751 382	4 845	7 011	279 843	3 419 466	958 402	4 369 849	85 098
3251	Basic chemical mfg	-	22	16	12 276	677 795	3 359	3 785	226 972	2 504 495	413 281	2 931 976	39 315
32518	Other basic inorganic chemical mfg	-	10	6	11 217	624 966	2 694	2 415	195 353	2 170 028	120 738	2 289 523	11 897
325188	All other basic inorganic chemical mfg	-	9	5	j	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	1	6	6	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	1	5	5	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	AUGUSTA-AIKEN, GA-SC MSA—Con.													
	Manufacturing—Con.													
325	Chemical mfg—Con.													
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	7	6	g	D	D	D	D	D	D	D	D	
32521	Resin & synthetic rubber mfg	—	3	3	e	D	D	D	D	D	D	D	7 077	
325211	Plastics material & resin mfg	—	3	3	e	D	D	D	D	D	D	D	7 077	
32522	Artificial & synthetic fibers & filaments mfg . .	—	4	3	f	D	D	D	D	D	D	D	D	
325222	Noncellulosic organic fiber mfg	—	4	3	f	D	D	D	D	D	D	D	D	
3254	Pharmaceutical & medicine mfg	—	5	2	e	D	D	D	D	D	D	D	D	
32541	Pharmaceutical & medicine mfg	—	5	2	e	D	D	D	D	D	D	D	D	
325412	Pharmaceutical preparation mfg	—	2	2	e	D	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	—	16	8		1 003	27 204	833	1 470	19 497	89 523	52 844	139 621	D
3261	Plastics product mfg	—	11	7	f									D
32614	Polystyrene foam product mfg	—	2	2	e									D
326140	Polystyrene foam product mfg	—	2	2	e									D
32619	Other plastics product mfg	1	7	4		293	6 041	250	378	4 088	11 993	10 128	20 720	D
326199	All other plastics product mfg	1	7	4		293	6 041	250	378	4 088	11 993	10 128	20 720	D
327	Nonmetallic mineral product mfg	6	30	7		2 743	90 744	2 056	4 337	62 548	310 131	165 561	475 616	30 725
3271	Clay product & refractory mfg	—	3	2	g		D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	—	3	2	g		D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg	—	2	1	e		D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg	—	1	1	f		D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	9	5	1	g		D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	9	5	1	g		D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	9	3	1	g		D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	—	20	4	e		D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	50	18		1 822	44 408	1 480	3 095	30 505	133 463	92 170	220 215	9 723
3323	Architectural & structural metals mfg	3	12	6		277	7 944	201	422	4 806	15 126	18 123	33 431	763
3327	Machine shops, turned product, & screw, nut, & bolt mfg	4	22	5	e		D	D	D	D	D	D	D	D
33271	Machine shops	4	19	5		258	7 213	194	322	4 755	14 746	5 671	20 392	794
332710	Machine shops	4	19	5		258	7 213	194	322	4 755	14 746	5 671	20 392	794
3329	Other fabricated metal product mfg	—	9	5		1 021	21 343	875	1 926	15 532	78 937	53 133	126 596	6 700
33291	Metal valve mfg	—	4	2	e		D	D	D	D	D	D	D	D
332911	Industrial valve mfg . . .	—	1	1	e		D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	5	3	f		D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	4	3	f		D	D	D	D	D	D	D	D
333	Machinery mfg	—	13	7		1 215	46 733	799	1 711	22 411	348 923	305 941	643 825	13 398
3335	Metalworking machinery mfg	—	5	1	f		D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	—	5	1	f		D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg . .	—	2	1	f		D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	4	3		404	13 848	289	575	7 626	48 089	22 962	70 258	D
33391	Pump & compressor mfg	—	1	1	e		D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	—	1	1	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	AUGUSTA-AIKEN, GA-SC MSA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	5	2	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	3	2	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	2	1	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	2	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	18	8	h	D	D	D	D	D	D	D	12 423
3363	Motor vehicle parts mfg ...	-	5	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	5	3	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	5	3	h	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	-	4	2	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	19	6	302	6 676	251	473	4 143	35 601	16 213	51 725	1 496
339	Miscellaneous mfg.....	-	27	3	906	26 744	765	1 452	20 151	42 562	110 028	152 772	D
3391	Medical equipment & supplies mfg	-	13	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	13	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	3	1	f	D	D	D	D	D	D	D	D
	CHARLESTON-NORTH CHARLESTON, SC MSA												
31-33	Manufacturing	-	415	133	20 595	687 536	14 909	31 000	436 492	3 086 856	3 461 367	6 588 871	656 856
311	Food mfg.....	1	29	5	625	14 753	332	576	5 619	45 461	71 761	116 811	2 039
3115	Dairy product mfg	-	2	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	2	2	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	-	2	2	e	D	D	D	D	D	D	D	D
313	Textile mills	-	7	4	1 146	35 026	903	1 903	23 612	90 026	100 308	185 500	10 967
3132	Fabric mills	-	3	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	1	e	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills ...	-	1	1	e	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .	-	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills.....	5	16	4	707	12 782	665	1 150	10 748	31 753	22 119	52 498	1 687
3141	Textile furnishings mills....	5	7	3	648	11 580	620	1 086	10 203	29 614	19 061	47 240	D
31411	Carpet & rug mills	6	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	6	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	30	16	1 538	41 460	1 244	2 493	29 413	110 768	145 714	255 905	5 009
3211	Sawmills & wood preservation	-	7	6	326	8 973	279	574	6 765	33 927	58 402	92 025	2 267
32111	Sawmills & wood preservation	-	7	6	326	8 973	279	574	6 765	33 927	58 402	92 025	2 267
321113	Sawmills	-	7	6	326	8 973	279	574	6 765	33 927	58 402	92 025	2 267
3212	Veneer, plywood, & engineered wood product mfg	-	5	4	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	5	4	f	D	D	D	D	D	D	D	D
321212	Softwood veneer & plywood mfg	-	1	1	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	1	18	6	f	D	D	D	D	D	D	D	D
32191	Millwork	-	8	2	270	5 829	234	459	4 580	9 513	8 144	17 703	449
322	Paper mfg	-	5	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D

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	CHARLESTON-NORTH CHARLESTON, SC MSA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	4	59	7	544	10 275	392	675	6 241	18 322	22 901	42 471	1 515
3231	Printing & related support activities.....	4	59	7	544	10 275	392	675	6 241	18 322	22 901	42 471	1 515
32311	Printing	4	59	7	544	10 275	392	675	6 241	18 322	22 901	42 471	1 515
323113	Commercial screen printing.....	7	13	3	251	4 192	185	373	2 419	5 806	15 546	22 558	824
325	Chemical mfg	—	30	14	2 860	128 468	1 822	4 337	69 591	1 127 311	1 024 872	2 130 806	447 606
3251	Basic chemical mfg	—	9	6	948	51 691	467	1 047	21 330	680 373	517 945	1 187 116	D
32519	Other basic organic chemical mfg	—	5	5	897	49 520	430	964	20 194	661 085	511 969	1 167 312	D
325192	Cyclic crude & intermediate mfg	—	1	1	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	3	3	e	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	7	4	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	—	3	3	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	—	3	3	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	—	7	1	g	D	D	D	D	D	D	D	714
32599	All other chemical product & preparation mfg	—	7	1	g	D	D	D	D	D	D	D	714
325992	Photographic film, paper, plate, & chemical mfg	—	3	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	25	12	1 236	26 941	887	1 665	19 198	124 061	64 687	189 205	10 020
3261	Plastics product mfg	—	11	8	444	11 005	357	736	7 720	27 381	31 521	58 623	8 729
3262	Rubber product mfg	—	14	4	792	15 936	530	929	11 478	96 680	33 166	130 582	1 291
32622	Rubber & plastics hoses & belting mfg	—	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg..	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	27	11	790	29 300	557	1 137	18 945	114 937	61 756	176 078	46 260
3273	Cement & concrete product mfg	1	20	9	711	27 330	502	1 041	17 772	108 537	58 264	167 259	D
32731	Cement mfg	—	3	2	e	D	D	D	D	D	D	D	D
327310	Cement mfg	—	3	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	13	7	1 776	71 055	1 265	2 791	46 159	259 429	572 753	911 792	D
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	—	1	1	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	—	4	4	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	4	4	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	—	1	1	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
332	Fabricated metal product mfg	—	55	15	1 239	33 526	934	1 739	21 717	87 667	91 844	180 873	5 109
3322	Cutlery & handtool mfg	—	5	2	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	—	5	2	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg ..	—	4	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	2	17	4	359	7 785	256	531	5 431	20 059	17 257	37 213	631
33231	Plate work & fabricated structural product mfg ..	1	8	3	308	6 781	230	484	4 803	18 440	15 451	33 806	226
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	24	6	e	D	D	D	D	D	D	D	D
33271	Machine shops.....	—	23	5	321	9 721	245	427	6 288	18 809	6 512	25 192	2 084
332710	Machine shops.....	—	23	5	321	9 721	245	427	6 288	18 809	6 512	25 192	2 084

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	CHARLESTON-NORTH CHARLESTON, SC MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	20	9	710	24 197	374	775	11 386	65 057	129 872	196 003	2 219
3336	Engine, turbine, & power transmission equipment mfg	-	6	6	e	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	6	6	e	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	4	4	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	10	2	262	9 100	117	227	2 708	20 065	59 407	81 391	1 014
335	Electrical equipment, appliance, & component mfg	-	6	2	f	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	1	1	e	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	26	12	3 855	134 580	2 961	6 688	97 980	582 723	703 749	1 270 918	27 704
3363	Motor vehicle parts mfg ...	-	8	4	2 716	103 600	2 122	4 929	78 250	510 694	653 580	1 148 825	24 602
33635	Motor vehicle transmission & power train parts mfg	-	3	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	3	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	3	14	6	g	D	D	D	D	D	D	D	D
33661	Ship & boat building	3	14	6	g	D	D	D	D	D	D	D	D
336611	Ship building & repairing	4	5	4	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	19	1	380	9 963	291	555	5 331	16 741	12 290	28 664	950
3372	Office furniture (including fixtures) mfg	-	3	1	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	3	1	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	4	32	5	813	20 379	602	1 096	11 969	37 258	23 302	60 936	4 191
3391	Medical equipment & supplies mfg	4	17	3	660	16 554	488	889	9 693	30 897	20 054	51 431	3 891
33911	Medical equipment & supplies mfg	4	17	3	660	16 554	488	889	9 693	30 897	20 054	51 431	3 891
339112	Surgical & medical instrument mfg	4	2	2	f	D	D	D	D	D	D	D	D
31-33	CHARLOTTE-GASTONIA-ROCK HILL, NC-SC MSA												
	Manufacturing	-	2 422	926	133 983	4 061 600	100 901	208 784	2 620 572	17 634 645	14 545 193	32 133 936	1 076 320
	Charlotte-Gastonia-Rock Hill, NC-SC MSA (NC Part) .	-	2 200	836	122 252	3 669 824	92 213	190 962	2 370 223	16 471 675	13 385 512	29 808 220	998 712
	Charlotte-Gastonia-Rock Hill, NC-SC MSA (SC Part) .	-	222	90	11 731	391 776	8 688	17 822	250 349	1 162 970	1 159 681	2 325 716	77 608
311	Food mfg	-	84	36	j	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	14	5	2 174	44 114	2 029	4 204	33 539	227 211	207 696	439 052	3 627
31161	Animal slaughtering & processing	-	14	5	2 174	44 114	2 029	4 204	33 539	227 211	207 696	439 052	3 627
311615	Poultry processing	-	5	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	38	11	i	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	33	7	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	18	7	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	5	4	h	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	-	2	2	h	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3119	Other food mfg	—	16	10	1 602	58 216	1 006	2 024	24 236	326 699	166 792	492 651	22 831
31191	Snack food mfg	—	4	3	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	—	4	3	f	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	—	2	1	e	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	—	2	1	e	D	D	D	D	D	D	D	D
31199	All other food mfg	5	7	5	e	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg	5	6	4	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	—	12	8	h	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	11	7	f	D	D	D	D	D	D	D	15 242
31211	Soft drink & ice mfg	—	10	7	722	19 833	326	769	8 862	257 094	236 634	493 747	D
312111	Soft drink mfg	—	7	6	674	18 995	307	739	8 585	255 456	235 500	490 971	14 885
3122	Tobacco mfg	—	1	1	g	D	D	D	D	D	D	D	D
31222	Tobacco product mfg	—	1	1	g	D	D	D	D	D	D	D	D
312221	Cigarette mfg	—	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills	—	198	140	26 518	617 760	23 285	51 675	490 448	1 506 300	2 378 962	3 886 695	172 112
3131	Fiber, yarn, & thread mills	—	70	58	10 741	221 619	9 697	21 286	186 917	519 487	910 470	1 433 327	100 526
31311	Fiber, yarn, & thread mills	—	70	58	10 741	221 619	9 697	21 286	186 917	519 487	910 470	1 433 327	100 526
313111	Yarn spinning mills	—	61	53	10 352	213 043	9 347	20 544	180 233	510 382	890 770	1 404 456	D
313112	Yarn texturing, throwing, & twisting mills	1	8	4	e	D	D	D	D	D	D	D	D
3132	Fabric mills	1	69	48	11 210	284 321	9 749	22 097	226 693	590 859	823 482	1 419 291	51 393
31321	Broadwoven fabric mills	1	22	16	6 887	181 653	6 284	14 701	156 372	399 186	572 109	981 520	33 209
313210	Broadwoven fabric mills	1	22	16	6 887	181 653	6 284	14 701	156 372	399 186	572 109	981 520	33 209
31324	Knit fabric mills	2	35	27	3 926	93 366	3 126	6 668	63 784	169 020	226 298	390 124	16 589
313241	Weft knit fabric mills	5	26	19	2 222	51 276	1 726	3 589	34 022	81 205	93 547	171 888	7 381
313249	Other knit fabric & lace mills	—	9	8	1 704	42 090	1 400	3 079	29 762	87 815	132 751	218 236	9 208
3133	Textile & fabric finishing & fabric coating mills	—	59	34	4 567	111 820	3 839	8 292	76 838	395 954	645 010	1 034 077	20 193
31331	Textile & fabric finishing mills	—	55	31	h	D	D	D	D	D	D	D	19 168
313311	Broadwoven fabric finishing mills	—	25	7	g	D	D	D	D	D	D	D	4 330
313312	Textile & fabric finishing mills	—	30	24	3 049	76 668	2 677	5 842	53 321	293 044	374 702	661 573	14 838
31332	Fabric coating mills	—	4	3	e	D	D	D	D	D	D	D	1 025
313320	Fabric coating mills	—	4	3	e	D	D	D	D	D	D	D	1 025
314	Textile product mills	1	53	24	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	2	28	11	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	2	28	11	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills	—	21	4	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills	2	7	7	g	D	D	D	D	D	D	D	D
3149	Other textile product mills	1	25	13	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	1	23	12	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	1	22	11	f	D	D	D	D	D	D	D	D
315	Apparel mfg	3	87	49	5 190	88 205	4 536	8 312	66 179	216 093	241 875	459 963	D
3151	Apparel knitting mills	2	33	17	2 544	42 579	2 287	4 301	34 321	122 030	118 023	240 128	D
31511	Hosiery & sock mills	3	23	11	1 880	31 415	1 678	3 263	24 674	77 588	80 219	157 512	D
315111	Sheer hosiery mills	3	18	8	g	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	3	5	3	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	2	10	6	664	11 164	609	1 038	9 647	44 442	37 804	82 616	D
315191	Outerwear knitting mills	1	9	5	f	D	D	D	D	D	D	D	D

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31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg	4	43	27	2 085	35 556	1 732	3 015	24 724	74 115	100 988	178 204	D
31522	Men's & boys' cut & sew apparel mfg	3	14	11	965	18 837	741	1 304	12 208	45 786	69 236	117 862	1 225
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2	9	8	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	3	9	7	352	5 645	304	535	3 981	9 712	10 372	19 990	461
315239	Women's & girls' cut & sew other outerwear mfg	5	4	4	260	4 057	237	466	3 317	6 662	2 689	9 268	D
31529	Other cut & sew apparel mfg	9	7	5	519	7 913	462	817	5 904	12 556	19 919	32 826	1 034
315291	Infants' cut & sew apparel mfg	9	2	2	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	2	11	5	561	10 070	517	996	7 134	19 948	22 864	41 631	D
31599	Apparel accessories & other apparel mfg	2	11	5	561	10 070	517	996	7 134	19 948	22 864	41 631	D
315999	Other apparel accessories & other apparel mfg	2	9	5	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	84	29	h	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg	—	5	4	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	—	5	4	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg	1	63	22	2 212	55 044	1 889	3 657	39 946	121 497	172 803	293 723	D
32191	Millwork	2	28	9	761	17 200	631	1 258	11 974	46 708	55 133	101 761	D
321911	Wood window & door mfg	1	10	6	586	12 616	495	994	9 250	32 014	34 075	66 781	1 404
32192	Wood container & pallet mfg	1	18	5	258	5 231	207	400	3 188	10 082	8 138	18 246	577
321920	Wood container & pallet mfg	1	18	5	258	5 231	207	400	3 188	10 082	8 138	18 246	577
32199	All other wood product mfg	1	17	8	1 193	32 613	1 051	1 999	24 784	64 707	109 532	173 716	D
321991	Manufactured home (mobile home) mfg	1	6	6	1 061	30 596	941	1 862	23 313	61 060	102 493	162 972	1 750
322	Paper mfg	—	51	38	4 682	180 356	3 482	7 333	120 623	581 036	505 164	1 094 578	D
3221	Pulp, paper, & paperboard mills	—	2	2	g	D	D	D	D	D	D	D	D
32212	Paper mills	—	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	49	36	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	37	29	2 873	91 074	2 137	4 480	59 491	211 028	271 519	482 654	21 413
322211	Corrugated & solid fiber box mfg	—	20	17	1 504	48 792	1 094	2 341	29 210	104 740	170 856	275 321	11 673
322212	Folding paperboard box mfg	—	6	6	804	26 244	587	1 124	17 763	66 087	49 380	115 609	6 326
322214	Fiber can, tube, drum, & similar products mfg	—	9	6	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg	—	4	3	308	10 091	255	563	6 459	27 264	25 263	51 858	D
323	Printing & related support activities	1	307	58	5 460	180 809	3 902	7 679	112 849	380 785	334 451	716 506	49 001
3231	Printing & related support activities	1	307	58	5 460	180 809	3 902	7 679	112 849	380 785	334 451	716 506	49 001
32311	Printing	1	268	47	4 791	156 908	3 417	6 671	96 858	331 774	322 604	655 595	45 528
323110	Commercial lithographic printing	1	100	24	2 078	70 509	1 504	2 927	45 793	147 526	134 061	279 750	28 055
323112	Commercial flexographic printing	1	12	3	391	12 517	275	666	7 754	30 707	35 363	64 650	3 235
323113	Commercial screen printing	1	43	6	569	11 632	438	735	7 085	26 392	22 497	51 801	1 458
323114	Quick printing	2	60	—	346	9 105	242	426	5 622	17 348	10 971	28 289	2 654
323116	Manifold business form printing	1	13	8	637	19 935	368	734	11 379	70 091	92 488	161 359	3 955
323117	Book printing	1	6	2	322	19 831	281	601	12 037	13 934	6 421	23 175	4 573
32312	Support activities for printing	1	39	11	669	23 901	485	1 008	15 991	49 011	11 847	60 911	3 473
323122	Prepress services	1	28	9	548	20 689	391	811	13 922	42 342	10 085	52 465	2 919

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31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con. Manufacturing—Con.												
324	Petroleum & coal products mfg	1	6	2	e	D	D	D	D	D	D	D	1 014
3241	Petroleum & coal products mfg	1	6	2	e	D	D	D	D	D	D	D	1 014
325	Chemical mfg	1	148	67	9 276	352 854	5 964	13 099	189 284	1 302 201	1 363 690	2 657 258	116 737
3251	Basic chemical mfg	2	23	12	1 286	51 954	587	1 181	21 333	184 827	187 605	372 335	27 743
32513	Dye & pigment mfg	—	10	5	f	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg	—	8	5	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	6	8	5	e	D	D	D	D	D	D	D	9 841
325199	All other basic organic chemical mfg	6	7	4	e	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	15	11	4 126	148 670	3 227	7 629	101 755	497 041	537 283	1 035 217	47 724
32521	Resin & synthetic rubber mfg	1	9	6	f	D	D	D	D	D	D	D	22 255
325211	Plastics material & resin mfg	1	7	5	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	—	6	5	h	D	D	D	D	D	D	D	25 469
325221	Cellulosic organic fiber mfg	—	1	1	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	1	5	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	7	8	4	452	14 948	236	381	4 637	37 159	29 462	70 458	4 079
32541	Pharmaceutical & medicine mfg	7	8	4	452	14 948	236	381	4 637	37 159	29 462	70 458	4 079
325412	Pharmaceutical preparation mfg	6	3	3	e	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	24	8	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	31	12	991	41 259	520	996	16 023	149 110	195 067	340 701	9 600
32561	Soap & cleaning compound mfg	2	29	10	f	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	1	11	4	e	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	3	15	6	609	26 803	276	544	9 149	104 586	136 206	238 517	D
3259	Other chemical product mfg	2	45	19	1 881	74 244	1 062	2 220	35 054	260 399	236 578	487 929	23 643
32591	Printing ink mfg	4	18	11	782	28 444	435	880	13 595	96 760	119 419	212 509	D
325910	Printing ink mfg	4	18	11	782	28 444	435	880	13 595	96 760	119 419	212 509	D
32599	All other chemical product & preparation mfg	1	26	8	g	D	D	D	D	D	D	D	20 742
325991	Custom compounding of purchased resin ...	—	9	5	e	D	D	D	D	D	D	D	2 174
325998	All other miscellaneous chemical product & preparation mfg	1	16	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	116	60	8 631	263 617	6 613	12 726	172 374	781 263	749 720	1 513 005	77 610
3261	Plastics product mfg	2	81	46	5 566	159 143	4 243	8 233	100 970	426 261	497 102	915 892	57 108
32611	Unsupported plastics film, sheet, & bag mfg ..	2	13	9	905	30 219	688	1 391	19 698	104 487	127 322	233 150	5 893
326113	Unsupported plastics film & sheet (except packaging) mfg	1	6	4	593	19 873	461	956	13 229	79 965	97 957	179 669	3 266
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	—	6	3	775	23 928	668	1 316	18 799	73 418	141 280	200 255	D
326122	Plastics pipe & pipe fitting mfg	—	2	2	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	7	3	2	269	8 179	212	331	3 807	19 976	37 348	57 404	2 009
326150	Urethane & other foam product (except polystyrene) mfg	7	3	2	269	8 179	212	331	3 807	19 976	37 348	57 404	2 009
32619	Other plastics product mfg	3	51	25	3 071	80 515	2 257	4 341	47 840	178 745	143 542	327 036	19 912
326199	All other plastics product mfg	3	43	22	h	D	D	D	D	D	D	D	D

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)				
31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	—	35	14	3 065	104 474	2 370	4 493	71 404	355 002	252 618	597 113	20 502
32621	Tire mfg	—	10	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	2	1	g	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg	—	10	6	802	26 531	515	1 028	13 895	64 960	58 017	122 907	D
326220	Rubber & plastics hoses & belting mfg	—	10	6	802	26 531	515	1 028	13 895	64 960	58 017	122 907	D
32629	Other rubber product mfg	—	15	7	f	D	D	D	D	D	D	D	1 394
326299	All other rubber product mfg	—	6	4	312	9 888	227	477	5 218	22 058	22 702	45 555	549
327	Nonmetallic mineral product mfg	2	87	35	3 712	97 392	3 064	6 197	71 286	305 117	243 954	553 537	42 513
3271	Clay product & refractory mfg	—	15	7	843	22 598	705	1 389	16 217	87 110	35 187	122 368	9 239
32711	Pottery, ceramics, & plumbing fixture mfg	1	8	2	e	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg	1	2	2	e	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	—	7	5	f	D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg	—	6	4	513	12 711	426	842	8 645	42 795	14 816	57 997	D
3272	Glass & glass product mfg	—	11	5	1 293	29 013	1 116	2 223	22 083	74 003	67 707	146 045	21 682
32721	Glass & glass product mfg	—	11	5	1 293	29 013	1 116	2 223	22 083	74 003	67 707	146 045	21 682
327215	Glass product mfg made of purchased glass	—	9	4	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	4	40	16	1 104	33 987	858	1 898	24 246	100 348	100 191	200 241	D
32732	Ready-mix concrete mfg	5	23	8	689	22 894	539	1 228	16 381	60 869	78 568	139 339	6 553
327320	Ready-mix concrete mfg	5	23	8	689	22 894	539	1 228	16 381	60 869	78 568	139 339	6 553
32739	Other concrete product mfg	1	10	4	270	6 526	214	430	4 980	28 079	8 089	36 223	1 443
327390	Other concrete product mfg	1	10	4	270	6 526	214	430	4 980	28 079	8 089	36 223	1 443
3279	Other nonmetallic mineral product mfg	1	18	6	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg	—	14	4	303	8 104	265	469	6 282	22 781	22 418	45 220	2 135
331	Primary metal mfg	—	17	10	2 741	113 971	2 063	4 594	78 821	410 127	501 521	882 152	27 281
3311	Iron & steel mills & ferroalloy mfg	—	3	3	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	3	3	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	3	3	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	—	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	2	2	e	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	2	1	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	—	2	1	g	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding	—	2	1	g	D	D	D	D	D	D	D	D
3315	Foundries	—	9	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	6	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries	—	5	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHARLOTTE-GASTONIA-ROCK HILL, NC-SC MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg.....	—	471	117	11 441	356 698	8 728	17 426	236 245	780 322	829 310	1 605 481	61 313
3321	Forging & stamping.....	1	25	11	1 070	34 390	862	1 727	24 133	60 228	41 924	102 058	3 971
33211	Forging & stamping.....	1	25	11	1 070	34 390	862	1 727	24 133	60 228	41 924	102 058	3 971
332111	Iron & steel forging ...	1	4	1	e	D	D	D	D	D	D	D	D
332116	Metal stamping.....	2	13	5	459	13 931	377	799	9 625	29 112	18 400	47 169	2 050
3322	Cutlery & handtool mfg....	—	7	4	f	D	D	D	D	D	D	D	3 146
33221	Cutlery & handtool mfg... .	—	7	4	f	D	D	D	D	D	D	D	3 146
332212	Hand & edge tool mfg....	—	7	4	f	D	D	D	D	D	D	D	3 146
3323	Architectural & structural metals mfg.....	—	83	26	1 857	60 424	1 264	2 497	33 042	98 984	212 353	309 419	7 302
33231	Plate work & fabricated structural product mfg... .	—	31	9	868	32 669	523	1 021	15 649	40 789	148 551	188 123	4 553
332312	Fabricated structural metal mfg.....	—	25	7	780	30 567	477	948	14 441	37 147	145 785	181 707	4 467
33232	Ornamental & architectural metal products mfg.....	—	52	17	989	27 755	741	1 476	17 393	58 195	63 802	121 296	2 749
332322	Sheet metal work mfg....	1	29	10	602	17 251	462	934	10 857	32 578	34 152	66 365	1 790
3324	Boiler, tank, & shipping container mfg.....	—	11	8	e	D	D	D	D	D	D	D	1 692
33243	Metal can, box, & other metal container (light gauge) mfg.....	—	5	4	303	11 097	251	524	7 277	21 083	68 449	85 606	1 328
3325	Hardware mfg.....	—	7	4	931	27 083	815	1 747	20 873	101 607	65 938	166 973	6 587
33251	Hardware mfg.....	—	7	4	931	27 083	815	1 747	20 873	101 607	65 938	166 973	6 587
332510	Hardware mfg.....	—	7	4	931	27 083	815	1 747	20 873	101 607	65 938	166 973	6 587
3326	Spring & wire product mfg .	—	10	7	777	20 850	653	1 199	14 093	70 201	41 291	112 386	5 153
33261	Spring & wire product mfg.....	—	10	7	777	20 850	653	1 199	14 093	70 201	41 291	112 386	5 153
332612	Spring (light gauge) mfg.....	—	4	3	505	13 630	426	724	9 255	56 949	26 765	84 372	3 727
332618	Other fabricated wire product mfg.....	—	6	4	272	7 220	227	475	4 838	13 252	14 526	28 014	1 426
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	2	237	25	2 167	64 087	1 685	3 085	42 728	113 578	59 296	174 492	10 794
33271	Machine shops.....	2	219	19	1 812	52 872	1 407	2 531	34 844	92 300	45 702	139 791	6 528
332710	Machine shops.....	2	219	19	1 812	52 872	1 407	2 531	34 844	92 300	45 702	139 791	6 528
33272	Turned product & screw, nut, & bolt mfg.....	2	18	6	355	11 215	278	554	7 884	21 278	13 594	34 701	4 266
332721	Precision turned product mfg.....	—	13	5	280	9 013	219	450	6 344	17 386	10 488	27 870	D
3328	Coating, engraving, heat treating, & allied activities .	2	47	12	917	26 810	663	1 365	18 102	58 758	34 126	93 233	7 113
33281	Coating, engraving, heat treating, & allied activities.....	2	47	12	917	26 810	663	1 365	18 102	58 758	34 126	93 233	7 113
332812	Metal coating/ engraving (exc jewelry/silverware)/ allied services.....	2	12	5	336	10 241	262	537	7 611	21 058	19 904	41 187	5 265
332813	Electroplating, plating, polishing, anodizing, & coloring.....	2	28	5	447	13 091	290	597	7 873	27 512	10 837	38 473	1 114
3329	Other fabricated metal product mfg.....	—	44	20	2 670	85 430	1 912	3 958	56 615	176 376	183 722	359 936	15 555
33291	Metal valve mfg.....	—	7	5	733	16 662	482	929	10 544	26 808	45 161	74 872	2 198
332919	Other metal valve & pipe fitting mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	—	37	15	1 937	68 768	1 430	3 029	46 071	149 568	138 561	285 064	13 357
332991	Ball & roller bearing mfg.....	—	3	3	f	D	D	D	D	D	D	D	6 325
332996	Fabricated pipe & pipe fitting mfg.....	—	5	3	261	9 813	179	374	5 643	19 497	20 935	40 811	D
332999	All other miscellaneous fabricated metal product mfg.....	—	24	9	794	23 052	503	935	11 659	47 678	25 933	72 939	6 337
333	Machinery mfg.....	—	245	107	11 178	392 650	6 638	12 796	193 610	1 078 052	1 000 681	2 067 545	57 164

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3331	Agriculture, construction, & mining machinery mfg....	-	11	8	1 502	39 885	915	1 512	17 826	229 556	153 658	370 361	9 069
33311	Agricultural implement mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg.....	1	3	2	e	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	1	5	4	252	7 427	168	302	3 790	20 761	29 174	51 773	1 088
333120	Construction machinery mfg.....	1	5	4	252	7 427	168	302	3 790	20 761	29 174	51 773	1 088
3332	Industrial machinery mfg..	-	110	45	4 120	135 511	2 356	4 584	63 286	331 753	432 867	746 953	28 862
33321	Sawmill & woodworking machinery mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
333210	Sawmill & woodworking machinery mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg.....	-	102	40	3 588	119 694	1 963	3 819	53 073	291 996	399 974	676 418	25 448
333291	Paper industry machinery mfg.....	-	6	2	e	D	D	D	D	D	D	D	D
333292	Textile machinery mfg.	-	76	26	2 528	81 242	1 477	2 971	38 698	193 985	152 941	340 148	20 265
333298	All other industrial machinery mfg.....	2	16	10	495	15 647	240	390	5 506	42 979	33 591	73 433	1 705
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	1	17	9	834	24 576	580	1 010	14 037	38 944	47 241	87 369	1 805
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	1	17	9	834	24 576	580	1 010	14 037	38 944	47 241	87 369	1 805
333415	AC & warm air heating & commercial industrial refrig equip mfg.....	1	5	3	610	18 713	436	773	11 109	23 468	31 423	56 708	1 226
3335	Metalworking machinery mfg.....	4	35	9	778	32 325	509	1 088	19 243	72 852	39 498	110 837	3 369
33351	Metalworking machinery mfg.....	4	35	9	778	32 325	509	1 088	19 243	72 852	39 498	110 837	3 369
3336	Engine, turbine, & power transmission equipment mfg.....	-	15	9	1 216	52 967	772	1 503	27 943	144 299	51 330	214 743	2 246
33361	Engine, turbine, & power transmission equipment mfg.....	-	15	9	1 216	52 967	772	1 503	27 943	144 299	51 330	214 743	2 246
333611	Turbine & turbine generator set unit mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg.....	-	7	5	461	15 010	318	629	7 811	38 560	38 063	77 350	1 686
3339	Other general-purpose machinery mfg.....	-	44	25	2 563	101 114	1 420	2 973	49 473	248 362	264 273	513 094	11 524
33391	Pump & compressor mfg.....	-	5	4	661	27 428	311	598	10 181	73 844	122 711	196 501	D
333911	Pump & pumping equipment mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	-	14	7	433	15 169	271	582	7 883	28 852	23 220	53 441	D
333922	Conveyor & conveying equipment mfg.....	-	8	6	355	12 757	212	469	6 448	24 195	18 522	44 177	D
33399	All other general-purpose machinery mfg.....	1	25	14	1 469	58 517	838	1 793	31 409	145 666	118 342	263 152	8 843
333991	Power-driven handtool mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg.....	2	17	9	676	21 310	411	899	10 485	56 656	30 096	86 010	3 238

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31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg	-	60	24	5 398	201 535	3 588	8 044	109 703	1 105 144	970 379	2 082 825	20 940
3344	Semiconductor & other electronic component mfg	-	22	9	4 208	162 170	3 019	6 928	96 090	1 012 258	888 110	1 908 174	13 953
33441	Semiconductor & other electronic component mfg	-	22	9	4 208	162 170	3 019	6 928	96 090	1 012 258	888 110	1 908 174	13 953
334417	Electronic connector mfg	-	3	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	2	2	h	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	6	1	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	18	8	712	24 647	334	595	8 359	56 501	45 026	101 247	2 862
33451	Navigational, measuring, medical, & control instruments mfg	-	18	8	712	24 647	334	595	8 359	56 501	45 026	101 247	2 862
335	Electrical equipment, appliance, & component mfg	-	49	21	2 258	72 017	1 707	3 292	41 787	163 341	230 199	392 740	19 391
3353	Electrical equipment mfg ..	-	29	11	1 126	40 055	770	1 428	23 586	64 419	135 906	200 023	12 794
33531	Electrical equipment mfg	-	29	11	1 126	40 055	770	1 428	23 586	64 419	135 906	200 023	12 794
335311	Power, distribution, & specialty transformer mfg	-	2	1	e	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	1	9	5	358	12 769	241	489	7 712	20 754	20 608	42 324	1 471
3359	Other electrical equipment & component mfg	1	13	8	913	24 856	792	1 607	15 817	79 809	74 916	155 000	D
33593	Wiring device mfg	-	6	4	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	81	35	10 675	362 735	8 971	17 658	293 427	1 361 116	2 130 267	3 491 768	56 686
3361	Motor vehicle mfg	-	8	2	h	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ..	-	3	2	h	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg ..	-	3	2	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	14	4	407	13 491	261	566	8 016	26 079	40 902	66 774	D
33621	Motor vehicle body & trailer mfg	-	14	4	407	13 491	261	566	8 016	26 079	40 902	66 774	D
336211	Motor vehicle body mfg	-	9	3	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	51	28	i	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	8	5	g	D	D	D	D	D	D	D	10 367
336340	Motor vehicle brake system mfg	-	8	5	g	D	D	D	D	D	D	D	10 367
33635	Motor vehicle transmission & power train parts mfg	-	8	6	f	D	D	D	D	D	D	D	2 875
336350	Motor vehicle transmission & power train parts mfg	-	8	6	f	D	D	D	D	D	D	D	2 875
33636	Motor vehicle seating & interior trim mfg	2	4	3	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	2	4	3	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	17	11	3 931	126 719	3 166	6 519	99 566	372 718	281 455	653 171	17 173
336399	All other motor vehicle parts mfg	-	16	10	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	112	29	3 877	94 492	3 217	6 542	69 015	252 351	208 912	462 297	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	76	18	2 932	70 049	2 425	4 950	52 612	148 642	144 705	293 899	6 102
33711	Wood kitchen cabinet & counter top mfg	1	41	5	652	15 217	551	1 017	10 219	34 352	22 750	57 114	3 203
337110	Wood kitchen cabinet & counter top mfg ...	1	41	5	652	15 217	551	1 017	10 219	34 352	22 750	57 114	3 203
33712	Household & institutional furniture mfg	1	35	13	2 280	54 832	1 874	3 933	42 393	114 290	121 955	236 785	2 899
337121	Upholstered household furniture mfg	-	11	7	1 445	35 378	1 273	2 780	30 051	76 942	80 621	157 730	854
337122	Nonupholstered wood household furniture mfg	1	13	3	431	8 795	356	698	6 280	22 661	19 634	42 436	700

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	-	32	10	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	32	10	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	-	2	2	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	2	18	6	378	10 260	310	577	6 406	20 831	16 972	38 101	131
339	Miscellaneous mfg	1	150	36	3 798	111 300	2 605	5 139	59 206	268 704	249 468	511 405	18 493
3391	Medical equipment & supplies mfg	1	56	11	1 478	50 062	977	1 892	24 541	137 884	112 980	244 357	D
33911	Medical equipment & supplies mfg	1	56	11	1 478	50 062	977	1 892	24 541	137 884	112 980	244 357	D
339113	Surgical appliance & supplies mfg	-	14	6	777	24 323	496	948	11 714	94 283	67 450	161 199	2 832
339114	Dental equipment & supplies mfg	-	4	1	e	D	D	D	D	D	D	D	D
339116	Dental laboratories ...	4	32	2	321	10 045	256	486	6 364	18 298	4 852	23 759	D
3399	Other miscellaneous mfg ..	1	94	25	2 320	61 238	1 628	3 247	34 665	130 820	136 488	267 048	D
33995	Sign mfg	2	29	5	336	10 185	209	468	4 920	18 156	11 133	28 819	433
339950	Sign mfg	2	29	5	336	10 185	209	468	4 920	18 156	11 133	28 819	433
33999	All other miscellaneous mfg	1	37	15	1 601	42 247	1 211	2 437	26 065	92 123	109 649	202 079	11 924
339991	Gasket, packing, & sealing device mfg ...	-	5	3	493	13 470	389	848	9 155	25 246	17 229	44 155	1 716
339993	Fastener, button, needle, & pin mfg	3	3	2	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	2	17	6	409	10 172	283	535	6 091	28 373	52 678	80 615	6 584
	COLUMBIA, SC MSA												
31-33	Manufacturing	-	460	162	23 522	785 021	16 649	33 134	462 493	2 499 443	2 809 007	5 301 456	184 105
311	Food mfg	1	15	12	995	22 434	804	1 593	16 607	209 002	221 663	429 269	3 155
3116	Meat product mfg	2	4	3	e	D	D	D	D	D	D	D	1 443
31161	Animal slaughtering & processing	2	4	3	e	D	D	D	D	D	D	D	1 443
311615	Poultry processing	2	2	2	e	D	D	D	D	D	D	D	D
3119	Other food mfg	-	2	1	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	4	1	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	4	1	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	3	1	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills	2	10	5	761	14 933	682	1 385	12 671	34 865	52 578	87 457	2 069
3132	Fabric mills	2	5	4	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery	2	3	3	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	2	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	8	14	10	795	9 549	671	1 119	7 141	15 779	25 510	41 544	383
3152	Cut & sew apparel mfg	8	10	8	717	8 763	614	1 056	6 648	14 611	24 100	38 932	302
31522	Men's & boys' cut & sew apparel mfg	9	2	2	e	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	9	2	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	-	23	9	472	10 901	387	756	6 917	24 820	55 984	79 891	2 474
3219	Other wood product mfg ...	-	16	5	268	6 068	228	405	4 124	13 708	19 449	33 322	1 253
322	Paper mfg	-	12	8	2 192	86 815	1 697	3 603	58 718	300 843	321 482	630 777	19 491
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	11	7	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	6	5	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	3	3	379	11 883	308	729	8 525	25 473	52 478	77 934	D
32222	Paper bag & coated & treated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D

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31-33	COLUMBIA, SC MSA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	3	87	18	1 535	44 548	1 156	2 206	26 589	86 940	48 790	135 292	7 573
3231	Printing & related support activities.....	3	87	18	1 535	44 548	1 156	2 206	26 589	86 940	48 790	135 292	7 573
32311	Printing.....	3	82	17	1 471	42 914	1 104	2 113	25 506	84 163	48 337	132 082	7 274
323110	Commercial lithographic printing ..	5	35	9	862	26 843	616	1 217	15 243	48 490	30 159	78 179	5 672
323113	Commercial screen printing.....	—	13	4	358	10 052	283	526	5 974	22 553	10 777	33 073	918
325	Chemical mfg	—	21	11	3 529	153 161	2 431	4 875	93 849	615 019	598 493	1 198 335	53 228
3251	Basic chemical mfg	—	6	2	974	43 100	516	948	19 757	136 882	112 582	256 379	5 561
32518	Other basic inorganic chemical mfg	—	3	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	3	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	5	5	2 336	103 010	1 801	3 721	71 315	450 784	454 214	882 249	45 735
32521	Resin & synthetic rubber mfg	—	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	—	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	—	4	4	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	—	4	4	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	23	10	2 066	76 686	1 827	3 593	65 839	281 291	225 762	503 769	18 374
3261	Plastics product mfg	3	17	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	6	12	4	263	6 028	209	410	4 247	12 065	11 553	23 652	310
3262	Rubber product mfg	—	6	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	—	2	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	2	32	13	956	28 783	681	1 530	18 079	66 177	47 789	113 992	6 519
3271	Clay product & refractory mfg	—	5	3	439	13 578	319	715	8 438	29 507	11 636	40 891	1 433
32712	Clay building material & refractories mfg	—	4	3	e	D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg	—	3	3	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	3	18	9	442	13 252	317	727	8 717	31 430	31 805	63 427	4 911
331	Primary metal mfg	—	7	3	525	18 391	377	762	12 129	47 017	97 067	142 706	D
3311	Iron & steel mills & ferroalloy mfg	—	3	2	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	3	2	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	78	28	3 256	90 722	2 241	4 385	52 343	220 088	328 081	544 750	14 284
3322	Cutlery & handtool mfg	—	3	2	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	—	3	2	e	D	D	D	D	D	D	D	D
332213	Saw blade & handsaw mfg	—	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	31	14	1 786	48 623	1 196	2 441	25 857	107 123	255 507	359 206	8 589
33231	Plate work & fabricated structural product mfg ..	—	17	10	1 491	41 635	972	1 974	21 142	93 061	239 046	328 286	7 899
332312	Fabricated structural metal mfg	—	14	8	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	3	14	4	295	6 988	224	467	4 715	14 062	16 461	30 920	690
3329	Other fabricated metal product mfg	—	13	4	486	15 358	363	717	9 991	39 796	28 451	68 051	917
33299	All other fabricated metal product mfg	—	10	2	401	12 681	303	609	8 244	31 602	23 112	54 476	716
332994	Small arms mfg	—	1	1	e	D	D	D	D	D	D	D	D

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	COLUMBIA, SC MSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	37	10	1 367	44 756	966	2 035	27 215	97 326	89 096	186 781	7 857
3335	Metalworking machinery mfg	-	7	3	256	8 055	177	345	4 635	28 735	14 868	42 448	2 006
33351	Metalworking machinery mfg	-	7	3	256	8 055	177	345	4 635	28 735	14 868	42 448	2 006
3336	Engine, turbine, & power transmission equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	2	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	7	3	444	15 532	353	785	10 984	47 940	22 070	64 993	2 737
33399	All other general-purpose machinery mfg	-	5	3	e	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	13	5	g	D	D	D	D	D	D	D	15 340
3341	Computer & peripheral equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	1	1	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	2	2	e	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	3	1	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	1	e	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg	-	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	7	3	f	D	D	D	D	D	D	D	7 542
3353	Electrical equipment mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	15	7	1 184	34 480	779	1 390	18 741	67 372	104 126	168 845	11 132
3363	Motor vehicle parts mfg ...	-	7	3	336	8 856	261	428	5 463	28 972	37 034	65 923	D
3365	Railroad rolling stock mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	19	4	426	10 206	257	459	6 757	19 342	45 520	66 091	981
3371	Household & institutional furniture & kitchen cabinet mfg	-	15	2	329	7 502	183	321	5 089	13 119	40 467	54 753	704
33712	Household & institutional furniture mfg	-	9	2	307	7 088	163	289	4 747	12 142	39 645	52 953	673
337127	Institutional furniture mfg	-	4	1	e	D	D	D	D	D	D	D	559
339	Miscellaneous mfg	2	34	4	384	9 277	283	515	5 799	19 559	12 186	31 793	D
3399	Other miscellaneous mfg ..	1	23	2	272	6 503	194	333	3 989	13 267	8 503	21 657	445

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FLORENCE, SC MSA													
31-33	Manufacturing	-	139	62	11 011	328 248	7 889	15 857	200 288	972 990	1 145 538	2 114 244	129 903
311	Food mfg	1	7	4	744	18 224	363	568	7 148	59 725	48 893	108 823	1 908
3118	Bakeries & tortilla mfg	-	1	1	e	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	1	1	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills	-	4	4	600	12 100	506	995	9 666	15 035	32 261	52 100	D
3131	Fiber, yarn, & thread mills	2	3	3	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	2	3	3	e	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	2	3	3	e	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	e	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	1	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills	-	6	5	1 013	21 597	787	1 571	13 005	36 196	96 608	133 632	4 741
3141	Textile furnishings mills	-	2	2	e	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	2	2	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	2	2	e	D	D	D	D	D	D	D	D
3149	Other textile product mills	-	4	3	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	4	3	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	-	4	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	16	13	925	10 501	786	1 344	8 358	14 464	6 433	20 501	210
3152	Cut & sew apparel mfg	-	15	12	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	-	11	9	660	7 153	554	974	5 730	9 899	1 180	10 985	158
315212	Women's, girls', & infants' cut & sew apparel contractors	-	8	6	491	5 496	415	750	4 572	8 040	1 003	8 973	D
321	Wood product mfg	-	15	5	480	9 829	390	750	7 324	18 342	49 270	67 596	3 818
322	Paper mfg	-	4	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	7	3	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	3	1	e	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	1	e	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	1	1	e	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	28	10	1 555	51 878	1 231	2 471	38 466	126 938	147 240	276 896	2 927
3322	Cutlery & handtool mfg	-	1	1	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	-	1	1	e	D	D	D	D	D	D	D	D
332213	Saw blade & handsaw mfg	-	1	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	8	4	632	25 413	462	1 066	17 736	64 604	106 750	172 632	627
33231	Plate work & fabricated structural product mfg	-	6	3	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	4	3	591	24 425	431	1 007	17 125	63 038	105 924	170 233	D
333	Machinery	-	6	2	g	D	D	D	D	D	D	D	2 631
3339	Other general-purpose machinery mfg	-	3	1	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	1	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D

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FLORENCE, SC MSA—Con.														
31-33	Manufacturing—Con.													
334	Computer & electronic product mfg.....	-	3	1	e	D	D	D	D	D	D	D	D	
3345	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
33451	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
334510	Electromedical & electrotherapeutic apparatus mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D	
3352	Household appliance mfg..	-	1	1	e	D	D	D	D	D	D	D	D	
33522	Major appliance mfg....	-	1	1	e	D	D	D	D	D	D	D	D	
335221	Household cooking appliance mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
33712	Household & institutional furniture mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
337121	Upholstered household furniture mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
339	Miscellaneous mfg.....	-	10	1		255	5 107	207	491	3 473	19 974	8 515	28 510	
GREENVILLE-SPARTANBURG-ANDERSON, SC MSA														
31-33	Manufacturing	-	1 603	688		121 048	3 689 043	95 274	439 475	2 496 059	11 035 019	13 927 172	24 905 610	1 089 264
311	Food mfg.....	1	48	21		3 467	95 289	2 820	5 947	72 703	532 950	524 995	1 058 404	14 647
3114	Fruit & vegetable preserving & specialty food mfg.....	-	6	3	g	D	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	-	3	2	g	D	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	2	2	g	D	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	5	6	4		530	12 314	455	936	9 265	31 161	93 905	125 260	1 518
31161	Animal slaughtering & processing.....	5	6	4		530	12 314	455	936	9 265	31 161	93 905	125 260	1 518
311611	Animal (except poultry) slaughtering.....	-	4	2	e	D	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	1	20	9		1 103	25 074	814	1 584	17 162	63 492	77 153	140 888	3 998
31181	Bread & bakery product mfg.....	-	17	6		810	18 719	598	1 123	12 375	43 434	41 371	84 868	2 760
311812	Commercial bakeries ..	-	6	4		650	16 620	499	999	11 337	41 982	40 513	82 516	2 475
31182	Cookie, cracker, & pasta mfg.....	4	3	3		293	6 355	216	461	4 787	20 058	35 782	56 020	1 238
311822	Flour mixes & dough mfg from purchased flour.....	4	3	3		293	6 355	216	461	4 787	20 058	35 782	56 020	1 238
3119	Other food mfg.....	5	3	2	e	D	D	D	D	D	D	D	D	D
313	Textile mills.....	-	164	124		29 112	739 950	24 906	297 562	556 472	1 789 959	2 409 164	4 215 407	182 426
3131	Fiber, yarn, & thread mills ..	-	21	18		2 968	77 305	2 548	251 504	58 370	211 234	355 130	570 981	10 170
31311	Fiber, yarn, & thread mills.....	-	21	18		2 968	77 305	2 548	251 504	58 370	211 234	355 130	570 981	10 170
313111	Yarn spinning mills ...	-	18	15	g	D	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills.....	-	3	3	f	D	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	103	86		21 922	549 106	18 941	38 844	418 883	1 277 243	1 578 450	2 862 586	156 909
31321	Broadwoven fabric mills ..	-	66	56		16 999	430 022	14 929	30 492	341 091	962 368	1 197 648	2 168 059	130 037
313210	Broadwoven fabric mills.....	-	66	56		16 999	430 022	14 929	30 492	341 091	962 368	1 197 648	2 168 059	130 037
31322	Narrow fabric mills & schiffli machine embroidery.....	4	14	11		1 796	32 857	1 544	3 284	23 348	67 631	53 059	121 641	4 367
313221	Narrow fabric mills....	2	11	8		1 055	21 089	883	1 971	14 995	42 687	39 537	82 904	D
313222	Schiffli machine embroidery.....	6	3	3		741	11 768	661	1 313	8 353	24 944	13 522	38 737	D
31323	Nonwoven fabric mills ...	-	14	12		1 682	55 900	1 240	2 478	33 355	138 386	179 688	314 645	9 616
313230	Nonwoven fabric mills ..	-	14	12		1 682	55 900	1 240	2 478	33 355	138 386	179 688	314 645	9 616
31324	Knit fabric mills.....	-	9	7		1 445	30 327	1 228	2 590	21 089	108 858	148 055	258 241	12 889
313241	Weft knit fabric mills ..	-	6	4	f	D	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills.....	-	3	3	f	D	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	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.												
	Manufacturing—Con.												
313	Textile mills—Con.												
3133	Textile & fabric finishing & fabric coating mills	-	40	20	4 222	113 539	3 417	7 214	79 219	301 482	475 584	781 840	15 347
31331	Textile & fabric finishing mills	-	38	19	h	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	31	14	3 388	91 051	2 757	5 848	64 746	258 878	430 517	693 653	12 456
313312	Textile & fabric finishing mills	-	7	5	f	D	D	D	D	D	D	D	D
314	Textile product mills	-	67	32	6 505	150 864	5 611	11 607	117 073	320 090	895 707	1 162 640	26 403
3141	Textile furnishings mills	-	32	15	4 412	99 500	3 940	8 158	82 389	241 957	652 588	843 423	14 037
31411	Carpet & rug mills	-	12	6	1 207	27 203	1 043	2 110	21 003	70 046	109 386	180 111	D
314110	Carpet & rug mills	-	12	6	1 207	27 203	1 043	2 110	21 003	70 046	109 386	180 111	D
31412	Curtain & linen mills	-	20	9	3 205	72 297	2 897	6 048	61 386	171 911	543 202	663 312	D
314129	Other household textile product mills	-	14	8	3 033	69 663	2 766	5 815	59 879	167 304	538 361	653 888	4 772
3149	Other textile product mills	-	35	17	2 093	51 364	1 671	3 449	34 684	78 133	243 119	319 217	12 366
31491	Textile bag & canvas mills	-	11	6	256	6 006	189	331	3 367	9 758	9 406	19 173	250
314912	Canvas & related product mills	-	10	6	e	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	24	11	1 837	45 358	1 482	3 118	31 317	68 375	233 713	300 044	12 116
314999	All other miscellaneous textile product mills ..	-	21	10	g	D	D	D	D	D	D	D	D
315	Apparel mfg	2	54	36	2 594	43 193	2 155	4 061	32 362	66 749	59 256	129 347	2 695
3152	Cut & sew apparel mfg	1	44	31	2 256	34 593	1 874	3 427	25 765	51 526	46 237	100 982	1 758
31521	Cut & sew apparel contractors	3	27	15	743	10 617	659	1 191	8 557	19 786	4 529	24 396	453
315212	Women's, girls', & infants' cut & sew apparel contractors ..	4	21	12	603	7 956	541	976	6 463	15 038	2 800	17 895	D
31522	Men's & boys' cut & sew apparel mfg	-	3	3	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	8	7	705	13 692	536	1 284	9 409	15 427	23 171	38 162	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	-	5	5	e	D	D	D	D	D	D	D	797
31529	Other cut & sew apparel mfg	1	6	6	e	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg	-	4	4	e	D	D	D	D	D	D	D	D
321	Wood product mfg	-	70	16	1 206	32 215	908	1 738	19 127	57 664	169 054	226 205	4 232
3211	Sawmills & wood preservation	-	20	5	346	10 611	224	411	5 490	17 674	119 622	136 411	2 020
32111	Sawmills & wood preservation	-	20	5	346	10 611	224	411	5 490	17 674	119 622	136 411	2 020
321113	Sawmills	-	20	5	346	10 611	224	411	5 490	17 674	119 622	136 411	2 020
3219	Other wood product mfg	1	42	8	689	17 264	544	1 052	10 915	28 893	37 203	66 737	1 007
32199	All other wood product mfg	-	13	2	351	10 309	284	552	6 207	16 301	21 209	38 079	301
321991	Manufactured home (mobile home) mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	45	31	3 449	113 996	2 540	5 270	73 709	462 797	345 968	806 030	33 100
3222	Converted paper product mfg	-	43	29	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	24	18	1 415	43 512	1 061	2 172	26 043	104 902	146 212	250 409	D
322211	Corrugated & solid fiber box mfg	-	16	13	1 092	34 717	820	1 694	20 119	84 372	125 657	209 386	9 375
32222	Paper bag & coated & treated paper mfg	-	9	7	1 355	48 056	1 047	2 221	32 502	311 973	139 866	450 202	11 858
322222	Coated & laminated paper mfg	-	5	4	f	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	-	1	1	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	5	8	4	463	12 734	281	527	8 687	14 216	30 633	44 907	D
323	Printing & related support activities	1	142	23	2 747	79 622	1 961	3 558	52 976	182 834	129 858	308 822	14 574
3231	Printing & related support activities	1	142	23	2 747	79 622	1 961	3 558	52 976	182 834	129 858	308 822	14 574
32311	Printing	1	134	22	2 668	77 029	1 906	3 463	51 634	177 511	127 677	301 342	D
323110	Commercial lithographic printing ..	2	62	11	1 108	31 288	737	1 327	19 418	72 192	41 890	111 018	4 083
323111	Commercial gravure 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)				
31-33	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con. Manufacturing—Con.												
325	Chemical mfg	-	100	54	8 421	324 615	5 834	11 774	183 255	1 549 145	1 806 774	3 353 440	167 218
3251	Basic chemical mfg	1	16	8	843	29 904	511	881	14 357	115 029	186 872	302 013	10 324
32519	Other basic organic chemical mfg	1	8	6	640	22 384	399	647	10 741	93 277	149 303	241 977	7 076
325199	All other basic organic chemical mfg	1	8	6	640	22 384	399	647	10 741	93 277	149 303	241 977	7 076
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	11	9	3 692	157 827	2 624	5 251	94 442	556 125	810 618	1 362 282	91 452
32521	Resin & synthetic rubber mfg	-	5	4	496	15 678	359	806	10 498	147 710	156 333	311 393	D
325211	Plastics material & resin mfg	-	5	4	496	15 678	359	806	10 498	147 710	156 333	311 393	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	6	5	3 196	142 149	2 265	4 445	83 944	408 415	654 285	1 050 889	D
325222	Noncellulosic organic fiber mfg	-	6	5	3 196	142 149	2 265	4 445	83 944	408 415	654 285	1 050 889	D
3254	Pharmaceutical & medicine mfg	-	6	5	g	D	D	D	D	D	D	D	21 850
32541	Pharmaceutical & medicine mfg	-	6	5	g	D	D	D	D	D	D	D	21 850
325412	Pharmaceutical preparation mfg	-	6	5	g	D	D	D	D	D	D	D	21 850
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	33	17	1 095	45 063	685	1 430	20 704	144 463	301 766	456 287	24 894
32561	Soap & cleaning compound mfg	-	32	17	g	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	-	20	14	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	21	9	718	26 693	465	888	12 687	190 749	114 174	302 135	15 822
32599	All other chemical product & preparation mfg	1	15	8	f	D	D	D	D	D	D	D	14 505
326	Plastics & rubber products mfg	-	106	59	12 192	416 114	9 965	19 898	309 234	1 195 776	1 559 213	2 772 008	119 958
3261	Plastics product mfg	-	86	47	7 493	245 374	5 904	11 973	165 392	674 254	706 836	1 386 142	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	12	7	2 767	111 753	2 084	4 322	73 071	336 720	271 562	613 483	D
326112	Unsupported plastics packaging film & sheet mfg	-	1	1	g	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	6	4	g	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, & shape mfg	-	4	3	f	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	4	3	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	-	5	3	e	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg	-	5	3	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	51	27	3 483	93 140	2 836	5 668	63 160	237 066	254 140	492 253	31 118
326199	All other plastics product mfg	1	48	26	3 413	91 678	2 780	5 572	62 121	235 331	252 662	489 033	D
3262	Rubber product mfg	-	20	12	4 699	170 740	4 061	7 925	143 842	521 522	852 377	1 385 866	D
32621	Tire mfg	-	6	4	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	3	3	h	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	1	10	7	g	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	1	7	5	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	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	—	50	24	3 290	108 785	2 569	5 462	76 713	308 971	239 735	554 583	9 658
3271	Clay product & refractory mfg	1	5	5	1 206	39 841	1 022	2 217	32 201	94 832	32 597	129 528	1 698
32711	Pottery, ceramics, & plumbing fixture mfg	1	3	3	g	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	1	1	f	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg	8	2	2	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	—	6	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	6	3	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
3273	Cement & concrete product mfg	1	30	11	1 176	38 502	787	1 683	22 707	95 143	84 726	179 150	3 966
32733	Concrete pipe, brick, & block mfg	—	5	3	e	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	—	10	3	631	20 455	401	877	10 871	43 374	29 864	73 321	1 151
327390	Other concrete product mfg	—	10	3	631	20 455	401	877	10 871	43 374	29 864	73 321	1 151
331	Primary metal mfg	—	17	7	1 550	45 289	1 336	2 814	36 219	124 195	126 989	246 571	18 107
3314	Nonferrous metal (except aluminum) production & processing	—	5	1	534	16 369	455	902	12 858	46 304	37 594	81 824	9 043
33142	Copper rolling, drawing, extruding, & alloying	—	1	1	e	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing	—	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries	—	6	4	694	19 767	630	1 446	16 746	47 196	30 835	75 102	7 162
33152	Nonferrous metal foundries	—	5	3	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	269	83	8 052	250 150	6 276	12 376	169 996	601 076	459 202	1 052 372	44 332
3321	Forging & stamping	—	11	5	370	13 829	258	613	8 334	29 970	26 667	56 786	1 891
33211	Forging & stamping	—	11	5	370	13 829	258	613	8 334	29 970	26 667	56 786	1 891
3323	Architectural & structural metals mfg	2	45	18	1 113	32 255	833	1 665	20 176	84 107	79 718	163 059	3 187
33231	Plate work & fabricated structural product mfg	2	20	8	571	17 311	417	838	10 455	37 680	53 198	90 276	1 406
332312	Fabricated structural metal mfg	2	12	5	383	12 081	257	532	6 696	26 533	46 357	72 778	1 025
33232	Ornamental & architectural metal products mfg	2	25	10	542	14 944	416	827	9 721	46 427	26 520	72 783	1 781
332322	Sheet metal work mfg	2	17	8	432	12 318	363	733	8 738	28 297	19 009	46 972	1 545
3324	Boiler, tank, & shipping container mfg	—	5	5	277	9 447	216	324	6 413	15 205	35 910	49 881	D
3325	Hardware mfg	—	2	2	e	D	D	D	D	D	D	D	D
33251	Hardware mfg	—	2	2	e	D	D	D	D	D	D	D	D
332510	Hardware mfg	—	2	2	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	146	28	1 747	53 034	1 360	2 459	35 380	106 699	58 743	164 015	8 782
33271	Machine shops	2	133	20	1 442	43 583	1 115	1 938	29 104	79 098	41 352	120 585	6 146
332710	Machine shops	2	133	20	1 442	43 583	1 115	1 938	29 104	79 098	41 352	120 585	6 146
33272	Turned product & screw, nut, & bolt mfg	1	13	8	305	9 451	245	521	6 276	27 601	17 391	43 430	2 636
3328	Coating, engraving, heat treating, & allied activities	—	26	9	1 036	25 201	816	1 614	16 203	47 207	18 743	65 981	1 887
33281	Coating, engraving, heat treating, & allied activities	—	26	9	1 036	25 201	816	1 614	16 203	47 207	18 743	65 981	1 887
332813	Electroplating, plating, polishing, anodizing, & coloring	—	14	6	741	17 274	572	1 172	10 964	18 745	5 181	23 994	553

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31-33	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	-	20	11	2 672	93 492	2 161	4 406	71 107	262 897	206 850	465 105	20 466
33291	Metal valve mfg.....	-	7	6	1 250	35 158	990	1 861	24 247	126 119	80 440	210 074	8 610
332911	Industrial valve mfg...e	-	2	2		D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg.....f	-	3	2		D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg.....e	-	1	1		D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	-	13	5	1 422	58 334	1 171	2 545	46 860	136 778	126 410	255 031	11 856
332991	Ball & roller bearing mfg.....g	-	3	2		D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	180	79	13 325	467 514	9 576	20 623	288 740	1 643 264	1 730 522	3 404 630	150 530
3331	Agriculture, construction, & mining machinery mfg....	1	6	4	586	18 736	454	846	12 996	35 710	44 119	78 737	8 059
33311	Agricultural implement mfg.....e	-	1	1		D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....e	-	1	1		D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	1	58	26	3 054	100 524	2 017	4 115	55 618	207 762	156 863	367 053	13 726
33329	Other industrial machinery mfg.....	1	57	25		D	D	D	D	D	D	D	D
333292	Textile machinery mfg.....	-	46	22	2 729	86 978	1 832	3 765	49 268	175 532	116 197	296 575	11 369
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....f	-	8	3		D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..f	-	8	3		D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg.....f	-	2	2		D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	-	53	19	2 486	88 882	1 831	4 174	56 875	163 378	146 717	306 531	19 112
33351	Metalworking machinery mfg.....f	-	53	19	2 486	88 882	1 831	4 174	56 875	163 378	146 717	306 531	19 112
333511	Industrial mold mfg ...	-	10	4		D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	-	21	10	1 648	55 359	1 226	2 723	35 211	110 039	118 329	224 954	8 771
3336	Engine, turbine, & power transmission equipment mfg.....h	-	8	6		D	D	D	D	D	D	D	85 323
33361	Engine, turbine, & power transmission equipment mfg.....h	-	8	6		D	D	D	D	D	D	D	85 323
333611	Turbine & turbine generator set unit mfg.....g	-	2	2		D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg....e	-	2	2		D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	40	17	3 199	109 157	2 216	5 014	59 871	258 144	350 914	609 441	20 107
33392	Material handling equipment mfg.....e	-	15	3		D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	-	23	12	2 547	88 363	1 791	4 180	49 266	232 615	295 523	526 754	D
333991	Power-driven handtool mfg.....g	-	1	1		D	D	D	D	D	D	D	D
333993	Packaging machinery mfg.....	-	5	5	727	33 832	443	816	17 343	81 544	60 290	142 867	5 856
333997	Scale & balance (except laboratory) mfg.....e	-	1	1		D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	31	16	6 949	221 095	4 870	9 258	120 591	333 748	574 129	898 486	62 087
3344	Semiconductor & other electronic component mfg.....	-	14	9	6 655	212 821	4 707	8 977	116 556	315 546	553 543	858 938	60 817

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	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg—Con.												
33441	Semiconductor & other electronic component mfg	-	14	9	6 655	212 821	4 707	8 977	116 556	315 546	553 543	858 938	60 817
334411	Electron tube mfg	-	1	1	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	1	3	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg...	-	1	1	f	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg	-	3	2	h	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	3	2	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	2	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	34	19	4 376	138 216	3 280	6 859	85 818	456 122	534 843	972 430	19 720
3351	Electric lighting equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	2	2	f	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	-	1	1	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	2	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg ...	-	2	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg..	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	20	10	901	27 934	619	1 354	14 894	82 406	91 284	172 418	D
33531	Electrical equipment mfg	-	20	10	901	27 934	619	1 354	14 894	82 406	91 284	172 418	D
335313	Switchgear & switchboard apparatus mfg	-	7	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	10	6	1 737	61 211	1 148	2 256	31 807	202 997	196 867	382 921	11 417
33592	Communication & energy wire & cable mfg	1	2	2	f	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg..	-	1	1	e	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	9	1	1	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	5	3	f	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg	-	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	58	35	10 731	386 775	8 225	16 250	254 055	1 171 918	2 190 187	3 341 444	209 574
3361	Motor vehicle mfg	-	6	3	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	6	3	g	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	5	2	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	1	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	36	24	6 056	191 888	4 772	9 980	124 309	594 176	864 923	1 453 917	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	4	4	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	4	4	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	1	8	7	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	8	7	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	4	4	f	D	D	D	D	D	D	D	13 659
336350	Motor vehicle transmission & power train parts mfg	-	4	4	f	D	D	D	D	D	D	D	13 659
33637	Motor vehicle metal stamping	-	6	3	1 218	41 190	1 042	2 278	30 115	100 147	121 671	222 519	D
336370	Motor vehicle metal stamping	-	6	3	1 218	41 190	1 042	2 278	30 115	100 147	121 671	222 519	D
33639	Other motor vehicle parts mfg	1	9	4	568	16 534	449	959	10 297	26 882	88 551	115 772	D
336399	All other motor vehicle parts mfg	1	9	4	568	16 534	449	959	10 297	26 882	88 551	115 772	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)				
	GREENVILLE-SPARTANBURG-ANDERSON, SC MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	—	4	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	4	3	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg	—	1	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	1	3	2	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	5	3	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	5	3	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	5	3	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	69	12	g	D	D	D	D	D	D	D	3 948
3371	Household & institutional furniture & kitchen cabinet mfg	2	58	6	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	1	16	4	321	6 635	265	525	4 368	22 449	19 741	42 098	845
3372	Office furniture (including fixtures) mfg	1	10	5	443	11 481	290	385	4 448	29 008	17 931	45 902	801
33721	Office furniture (including fixtures) mfg	1	10	5	443	11 481	290	385	4 448	29 008	17 931	45 902	801
337212	Custom architectural woodwork & millwork mfg	—	4	2	250	7 179	163	214	2 321	17 356	5 597	23 074	D
339	Miscellaneous mfg	1	86	16	1 822	44 374	1 496	2 767	29 801	160 541	106 510	261 611	5 274
3399	Other miscellaneous mfg ..	—	55	14	1 638	40 110	1 363	2 541	27 246	145 633	101 033	241 133	4 700
33992	Sporting & athletic goods mfg	—	7	3	696	15 526	611	1 121	11 160	45 302	53 204	91 774	D
339920	Sporting & athletic goods mfg	—	7	3	696	15 526	611	1 121	11 160	45 302	53 204	91 774	D
33994	Office supplies (except paper) mfg	—	4	3	e	D	D	D	D	D	D	D	D
33995	Sign mfg	2	22	3	e	D	D	D	D	D	D	D	784
339950	Sign mfg	2	22	3	e	D	D	D	D	D	D	D	784
33999	All other miscellaneous mfg	3	16	4	384	10 312	301	583	6 248	24 433	15 677	40 133	1 072
339991	Gasket, packing, & sealing device mfg ...	4	5	2	e	D	D	D	D	D	D	D	885
	MYRTLE BEACH, SC MSA												
31-33	Manufacturing	—	160	31	6 687	173 408	4 559	9 377	98 927	565 171	388 326	927 797	46 983
313	Textile mills	9	4	2	e	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	9	1	1	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	9	1	1	e	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	9	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills.....	—	9	1	e	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	—	5	1	e	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	—	5	1	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	—	14	3	419	11 932	384	806	10 148	58 026	63 591	120 065	2 367
3211	Sawmills & wood preservation	—	4	1	e	D	D	D	D	D	D	D	D
32111	Sawmills & wood preservation	—	4	1	e	D	D	D	D	D	D	D	D
321113	Sawmills	—	3	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	18	5	1 037	28 294	731	1 461	19 279	109 999	39 587	143 798	6 970
3329	Other fabricated metal product mfg	—	4	3	926	25 928	656	1 355	17 707	105 008	36 686	136 302	D
33291	Metal valve mfg	—	2	2	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	7	3	571	14 532	315	499	6 587	43 148	58 101	89 542	3 727
3331	Agriculture, construction, & mining machinery mfg....	—	3	1	e	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	1	1	e	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	1	1	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	MYRTLE BEACH, SC MSA—Con.													
	Manufacturing—Con.													
334	Computer & electronic product mfg.....	-	4	2	g	D	D	D	D	D	D	D	D	
3344	Semiconductor & other electronic component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D	
33441	Semiconductor & other electronic component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D	
334414	Electronic capacitor mfg.....	-	1	1	g	D	D	D	D	D	D	D	D	
334419	Other electronic component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	
	SUMTER, SC MSA													
31-33	Manufacturing	-	84	50		12 655	303 045	10 941	21 438	227 700	976 820	1 073 585	2 050 389	62 670
311	Food mfg.....	-	4	3	h	D	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	2	2	h	D	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	h	D	D	D	D	D	D	D	D	D
311615	Poultry processing.....	-	1	1	h	D	D	D	D	D	D	D	D	D
313	Textile mills.....	-	5	4	g	D	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills.....	-	4	4	g	D	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills.....	-	4	4	g	D	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills.....	-	2	2	g	D	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	4	3		514	7 252	469	820	5 812	14 398	13 628	28 259	D
3141	Textile furnishings mills....	-	3	3	f	D	D	D	D	D	D	D	D	D
31411	Carpet & rug mills.....	-	1	1	e	D	D	D	D	D	D	D	D	D
314110	Carpet & rug mills.....	-	1	1	e	D	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	4	2		308	3 935	241	423	2 643	7 655	759	8 345	D
3152	Cut & sew apparel mfg....	-	4	2		308	3 935	241	423	2 643	7 655	759	8 345	D
31521	Cut & sew apparel contractors.....	-	3	2	e	D	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	4	4		593	17 762	474	983	11 461	35 885	112 138	142 385	9 785
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	-	2	2	f	D	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg..	-	1	1	e	D	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg.	-	1	1	f	D	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	-	1	1	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	19	9		1 666	44 351	1 502	3 277	35 006	147 040	68 947	220 933	4 854
3322	Cutlery & handtool mfg....	-	1	1	f	D	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg..	-	1	1	f	D	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg..	-	1	1	f	D	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg.....	-	4	3	e	D	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	-	4	3	e	D	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg.....	-	2	2	e	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	3	3	g	D	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg..	-	2	2	f	D	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg.....	-	1	1	f	D	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	D
33591	Battery mfg.....	-	1	1	e	D	D	D	D	D	D	D	D	D
335911	Storage battery mfg....	-	1	1	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)				
31-33	SUMTER, SC MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	-	5	4	1 166	37 764	1 006	2 405	30 030	173 404	187 347	360 282	D
3363	Motor vehicle parts mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	10	7	1 691	36 042	1 534	3 036	29 579	78 113	68 793	151 347	3 179
3371	Household & institutional furniture & kitchen cabinet mfg	-	5	4	g	D	D	D	D	D	D	D	2 553
33712	Household & institutional furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
337122	Nonupholstered wood household furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553

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

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

Table 3. Industry Statistics for Counties: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ABBEVILLE COUNTY, SC												
	Manufacturing	-	36	26	3 978	101 350	3 437	7 234	77 996	237 310	370 700	607 468	37 002
313	Textile mills	-	6	6	1 909	49 434	1 693	3 524	40 052	89 449	168 064	255 463	30 607
3132	Fabric mills	-	5	5	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	4	4	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	4	4	g	D	D	D	D	D	D	D	D
315	Apparel mfg	4	6	6	631	10 323	553	1 037	8 062	16 674	3 979	20 230	D
3152	Cut & sew apparel mfg	7	5	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
31-33	AIKEN COUNTY, SC												
	Manufacturing	-	99	40	19 999	896 656	10 215	17 232	409 652	3 405 358	875 298	4 256 326	294 821
313	Textile mills	-	9	8	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	3	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	3	3	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	3	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	6	5	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	6	5	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	3	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D

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)				
AIKEN COUNTY, SC—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg	-	9	6	j	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	4	3	j	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	2	1	j	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	2	1	j	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	9	11	2	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	9	5	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	9	5	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	9	3	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	8	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	5	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	7	5	f	D	D	D	D	D	D	D	D
ALLENDALE COUNTY, SC													
31-33	Manufacturing	-	14	9	1 440	33 642	1 199	2 385	24 137	135 064	174 996	310 346	8 477
ANDERSON COUNTY, SC													
31-33	Manufacturing	-	240	103	20 589	611 442	16 627	33 958	431 682	1 739 478	2 429 619	4 180 093	192 145
313	Textile mills	-	27	23	6 847	179 656	5 637	11 967	128 267	412 068	577 491	997 872	40 150
3131	Fiber, yarn, & thread mills	-	4	4	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	4	4	g	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	18	17	i	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	15	14	4 977	135 797	4 014	8 580	95 066	292 547	373 383	671 611	33 890
313210	Broadwoven fabric mills	-	15	14	4 977	135 797	4 014	8 580	95 066	292 547	373 383	671 611	33 890
314	Textile product mills	-	12	6	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	8	5	g	D	D	D	D	D	D	D	28 331
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg	-	2	2	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	25	13	3 431	107 575	2 820	5 326	82 765	339 719	550 596	898 480	41 969
3261	Plastics product mfg	-	19	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	14	7	1 189	31 099	980	1 851	21 468	79 657	71 373	150 474	D
326199	All other plastics product mfg	-	14	7	1 189	31 099	980	1 851	21 468	79 657	71 373	150 474	D
3262	Rubber product mfg	1	6	4	g	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	1	3	3	g	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	1	3	3	g	D	D	D	D	D	D	D	D

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

NAICS code	Geographic area and industry	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)				
	ANDERSON COUNTY, SC—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	-	5	3	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	2	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	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
332	Fabricated metal product mfg	1	55	17		1 120	33 733	809	1 556	20 528	81 926	49 855	131 962
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	30	7		543	17 045	410	729	10 848	36 226	15 085	52 092
335	Electrical equipment, appliance, & component mfg	-	7	5	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	8	6	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	6	5	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
	BAMBERG COUNTY, SC												
31-33	Manufacturing	-	24	11		1 175	28 497	879	1 679	16 617	100 416	79 009	180 356
	BARNWELL COUNTY, SC												
31-33	Manufacturing	-	22	14		3 376	75 895	2 858	5 896	51 033	203 716	249 823	450 313
315	Apparel mfg	-	5	4	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	1	1	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	1	1	f	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg	-	1	1	g	D	D	D	D	D	D	D	D
	BEAUFORT COUNTY, SC												
31-33	Manufacturing	3	94	13		1 087	28 716	781	1 429	16 456	75 820	66 249	137 548

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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)				
BERKELEY COUNTY, SC													
31-33	Manufacturing	-	75	33	6 396	210 630	4 561	9 808	132 622	1 232 618	1 503 178	2 811 193	D
321	Wood product mfg	-	6	5	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	3	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	7	4	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	-	1	1	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	-	1	1	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	6	3	654	11 859	449	827	9 453	85 179	30 748	116 680	D
3262	Rubber product mfg	-	4	1	f	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg	-	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg..	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	g	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
331312	Primary aluminum production	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	9	2	508	11 466	408	779	8 013	20 657	8 937	29 708	D
CALHOUN COUNTY, SC													
31-33	Manufacturing	4	18	6	809	22 921	637	1 463	15 439	20 522	78 916	97 576	D
CHARLESTON COUNTY, SC													
31-33	Manufacturing	-	261	67	10 530	366 332	7 467	15 412	230 743	1 466 054	1 603 227	3 039 363	D
311	Food mfg	1	23	4	571	13 901	281	497	5 114	44 068	69 580	113 182	1 986
314	Textile product mills	8	12	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	9	4	1	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	9	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	9	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	4	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	19	8	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	5	4	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	3	3	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	3	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	20	8	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	5	3	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
3366	Ship & boat building	4	12	4	940	26 541	666	1 450	16 748	60 219	38 982	99 227	D
33661	Ship & boat building	4	12	4	940	26 541	666	1 450	16 748	60 219	38 982	99 227	D
336611	Ship building & repairing	4	5	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CHEROKEE COUNTY, SC													
31-33	Manufacturing	-	76	51	8 195	231 435	6 800	259 717	174 928	911 390	859 601	1 767 117	53 767
311	Food mfg	-	2	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills	-	19	18	3 414	86 504	2 913	252 027	65 264	254 718	207 210	462 756	D
3131	Fiber, yarn, & thread mills	-	4	4	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	4	4	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	-	4	4	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	8	8	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	6	6	1 052	31 278	924	1 959	24 119	66 513	87 458	154 873	D
313210	Broadwoven fabric mills	-	6	6	1 052	31 278	924	1 959	24 119	66 513	87 458	154 873	D
3133	Textile & fabric finishing & fabric coating mills	-	7	6	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	7	6	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	5	4	1 092	30 150	868	1 696	21 135	77 009	55 196	130 646	D
332	Fabricated metal product mfg	-	9	6	1 087	41 909	949	1 867	34 959	90 655	101 896	191 751	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	f	D	D	D	D	D	D	D	D
CHESTER COUNTY, SC													
31-33	Manufacturing	-	54	30	5 260	145 769	4 503	9 056	111 454	441 185	519 603	964 140	30 721
313	Textile mills	-	7	6	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	7	6	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	6	5	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	6	5	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	2	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	2	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	5	4	f	D	D	D	D	D	D	D	8 506
3272	Glass & glass product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	3	f	D	D	D	D	D	D	D	D
CHESTERFIELD COUNTY, SC													
31-33	Manufacturing	-	58	36	7 450	196 374	5 702	12 058	134 756	614 115	790 324	1 408 203	43 164
313	Textile mills	1	11	11	1 909	48 166	1 580	3 438	35 431	128 782	195 214	327 145	16 733
3132	Fabric mills	1	7	7	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	2	4	4	f	D	D	D	D	D	D	D	7 188
313210	Broadwoven fabric mills	2	4	4	f	D	D	D	D	D	D	D	7 188
315	Apparel mfg	-	12	8	1 044	20 155	609	1 202	8 939	40 665	67 691	107 215	795
3152	Cut & sew apparel mfg	-	9	6	935	19 184	503	1 053	8 065	37 679	64 505	101 431	D
31522	Men's & boys' cut & sew apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	13	8	2 586	73 023	1 992	4 183	51 809	283 435	197 760	480 644	15 045
3322	Cutlery & handtool mfg	-	2	2	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	-	2	2	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg	-	2	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	4	3	g	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	3	2	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	2	2	g	D	D	D	D	D	D	D	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)
31-33	CHESTERFIELD COUNTY, SC—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	—	2	2	f	D	D	D	D	D	D	D	
3352	Household appliance mfg . . .	—	1	1	f	D	D	D	D	D	D	D	
33522	Major appliance mfg . . .	—	1	1	f	D	D	D	D	D	D	D	
335228	Other major household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	
	CLARENDON COUNTY, SC												
31-33	Manufacturing	2	24	14	1 396	26 108	1 245	2 367	20 273	74 500	49 080	122 355	5 603
339	Miscellaneous mfg	—	3	1	f	D	D	D	D	D	D	D	
3399	Other miscellaneous mfg . .	—	2	1	f	D	D	D	D	D	D	D	
33999	All other miscellaneous mfg	—	1	1	f	D	D	D	D	D	D	D	
339991	Gasket, packing, & sealing device mfg . . .	—	1	1	f	D	D	D	D	D	D	D	
	COLLETON COUNTY, SC												
31-33	Manufacturing	1	26	15	1 779	46 920	1 470	3 226	33 518	86 900	103 191	196 019	9 356
	DARLINGTON COUNTY, SC												
31-33	Manufacturing	—	63	34	6 002	185 942	5 088	10 440	146 352	749 176	1 308 983	2 054 592	88 614
313	Textile mills	—	2	2	g	D	D	D	D	D	D	D	
3133	Textile & fabric finishing & fabric coating mills	—	1	1	g	D	D	D	D	D	D	D	
31331	Textile & fabric finishing mills	—	1	1	g	D	D	D	D	D	D	D	
313311	Broadwoven fabric finishing mills	—	1	1	g	D	D	D	D	D	D	D	
315	Apparel mfg	—	6	6	f	D	D	D	D	D	D	968	
322	Paper mfg	—	6	6	g	D	D	D	D	D	D	D	
3222	Converted paper product mfg	—	5	5	1 137	32 663	1 031	2 073	27 477	127 973	121 825	250 663	D
32221	Paperboard container mfg	—	3	3	g	D	D	D	D	D	D	D	
322214	Fiber can, tube, drum, & similar products mfg	—	2	2	f	D	D	D	D	D	D	D	
322215	Nonfolding sanitary food container mfg . . .	—	1	1	f	D	D	D	D	D	D	D	
325	Chemical mfg	—	6	2	f	D	D	D	D	D	D	D	
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	1	1	f	D	D	D	D	D	D	D	
32522	Artificial & synthetic fibers & filaments mfg . .	—	1	1	f	D	D	D	D	D	D	D	
325222	Noncellulosic organic fiber mfg	—	1	1	f	D	D	D	D	D	D	D	
	DILLON COUNTY, SC												
31-33	Manufacturing	—	25	16	3 613	62 893	3 308	5 800	49 863	155 425	239 568	394 302	23 837
311	Food mfg	—	2	1	g	D	D	D	D	D	D	D	
3116	Meat product mfg	—	2	1	g	D	D	D	D	D	D	D	
31161	Animal slaughtering & processing	—	2	1	g	D	D	D	D	D	D	D	
311615	Poultry processing	—	1	1	g	D	D	D	D	D	D	D	
313	Textile mills	—	6	5	876	19 811	830	1 724	16 235	56 242	144 249	199 678	14 548
3131	Fiber, yarn, & thread mills .	—	4	3	f	D	D	D	D	D	D	D	
31311	Fiber, yarn, & thread mills	—	4	3	f	D	D	D	D	D	D	D	
337	Furniture & related product mfg	—	2	2	f	D	D	D	D	D	D	D	
3371	Household & institutional furniture & kitchen cabinet mfg	—	2	2	f	D	D	D	D	D	D	D	
33712	Household & institutional furniture mfg	—	2	2	f	D	D	D	D	D	D	D	
337122	Nonupholstered wood household furniture mfg	—	2	2	f	D	D	D	D	D	D	D	

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DORCHESTER COUNTY, SC													
31-33	Manufacturing	-	79	33	3 669	110 574	2 881	5 780	73 127	388 184	354 962	738 315	D
321	Wood product mfg	-	10	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
EDGEFIELD COUNTY, SC													
31-33	Manufacturing	-	28	11	2 041	44 570	1 676	3 276	32 007	123 027	212 410	333 348	7 079
313	Textile mills	-	5	4	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	4	3	f	D	D	D	D	D	D	D	D
FAIRFIELD COUNTY, SC													
31-33	Manufacturing	-	20	11	2 239	79 833	1 966	4 263	63 046	453 292	550 039	1 001 911	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	1	1	f	D	D	D	D	D	D	D	D
FLORENCE COUNTY, SC													
31-33	Manufacturing	-	139	62	11 011	328 248	7 889	15 857	200 288	972 990	1 145 538	2 114 244	129 903
311	Food mfg	1	7	4	744	18 224	363	568	7 148	59 725	48 893	108 823	1 908
313	Textile mills	-	4	4	600	12 100	506	995	9 666	15 035	32 261	52 100	D
314	Textile product mills	-	6	5	1 013	21 597	787	1 571	13 005	36 196	96 608	133 632	4 741
3149	Other textile product mills..	-	4	3	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	4	3	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	4	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	16	13	925	10 501	786	1 344	8 358	14 464	6 433	20 501	210
3152	Cut & sew apparel mfg	-	15	12	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	-	11	9	660	7 153	554	974	5 730	9 899	1 180	10 985	158
322	Paper mfg	-	4	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	7	3	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	28	10	1 555	51 878	1 231	2 471	38 466	126 938	147 240	276 896	2 927
3323	Architectural & structural metals mfg	-	8	4	632	25 413	462	1 066	17 736	64 604	106 750	172 632	627
33231	Plate work & fabricated structural product mfg ..	-	6	3	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	4	3	591	24 425	431	1 007	17 125	63 038	105 924	170 233	D
333	Machinery mfg	-	6	2	g	D	D	D	D	D	D	D	2 631
3339	Other general-purpose machinery mfg	-	3	1	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	1	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	-	2	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GEORGETOWN COUNTY, SC													
31-33	Manufacturing	-	78	31	4 974	141 636	4 094	7 529	106 608	431 713	634 295	1 057 601	45 147
313	Textile mills	-	6	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg	6	13	10	764	9 210	676	1 088	7 915	14 732	11 158	25 884	D
3152	Cut & sew apparel mfg	5	10	8	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	3	2	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	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
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
33593	Wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
GREENVILLE COUNTY, SC													
31-33	Manufacturing	-	672	272	45 372	1 431 844	34 483	70 399	916 539	4 595 172	4 923 408	9 507 470	417 041
311	Food mfg	7	24	11	1 054	22 362	776	1 497	15 521	76 881	138 783	215 889	D
3118	Bakeries & tortilla mfg	5	10	5	526	10 329	357	684	6 511	20 092	22 869	43 167	D
313	Textile mills	-	46	33	6 980	173 448	6 039	12 474	127 866	476 586	532 499	997 068	62 464
3132	Fabric mills	-	30	24	5 718	140 859	4 994	10 322	105 250	402 487	448 805	838 899	58 547
31321	Broadwoven fabric mills	-	14	11	3 270	76 038	2 998	6 116	63 764	241 092	227 074	457 234	44 779
313210	Broadwoven fabric mills	-	14	11	3 270	76 038	2 998	6 116	63 764	241 092	227 074	457 234	44 779
31322	Narrow fabric mills & schiffli machine embroidery	3	5	4	g	D	D	D	D	D	D	D	D
313222	Schiffli machine embroidery	7	2	2	f	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	-	8	7	744	26 128	591	1 203	16 080	68 874	105 293	171 236	D
313230	Nonwoven fabric mills	-	8	7	744	26 128	591	1 203	16 080	68 874	105 293	171 236	D
31324	Knit fabric mills	-	3	2	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills	-	2	2	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	13	8	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	13	8	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	9	5	f	D	D	D	D	D	D	D	D
314	Textile product mills	-	28	10	2 097	47 748	1 716	3 817	34 444	76 996	208 104	283 798	D
3141	Textile furnishings mills	-	15	6	1 153	27 011	926	2 175	19 610	53 113	88 936	141 594	D
31412	Curtain & linen mills	1	11	4	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	6	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	-	13	4	944	20 737	790	1 642	14 834	23 883	119 168	142 204	D
31499	All other textile product mills	-	8	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	8	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	2	20	12	985	17 410	793	1 489	12 145	29 573	33 945	62 909	1 201
3152	Cut & sew apparel mfg	1	16	9	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	17	11	1 406	50 842	1 049	2 185	33 666	314 364	141 605	455 361	13 889
3222	Converted paper product mfg	-	16	10	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	3	2	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	70	12	1 085	29 860	743	1 337	17 833	72 003	43 140	111 651	D
3231	Printing & related support activities	3	70	12	1 085	29 860	743	1 337	17 833	72 003	43 140	111 651	D
32311	Printing	3	68	12	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	GREENVILLE COUNTY, SC—Con.												
	Manufacturing—Con.												
325	Chemical mfg	-	55	30	3 609	128 133	2 483	5 280	69 960	795 521	733 817	1 536 871	52 336
3254	Pharmaceutical & medicine mfg	-	5	5	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	5	5	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	5	5	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	21	11	737	33 043	428	902	13 518	80 176	174 765	265 489	D
32561	Soap & cleaning compound mfg	-	20	11	f	D	D	D	D	D	D	D	D
325613	Surface active agent mfg	-	13	9	604	29 002	341	745	11 343	73 289	145 047	228 834	D
326	Plastics & rubber products mfg	-	41	23	5 336	199 691	4 298	9 021	143 045	611 532	619 728	1 239 887	52 649
3261	Plastics product mfg	-	35	19	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	8	5	2 677	109 337	2 016	4 223	71 505	330 550	262 314	597 791	D
326112	Unsupported plastics packaging film & sheet mfg	-	1	1	g	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	16	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	13	6	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	6	4	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	20	9	659	21 753	466	1 083	13 734	57 228	61 628	118 331	D
3273	Cement & concrete product mfg	1	17	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	101	32	2 923	82 306	2 259	4 527	50 527	181 849	128 026	307 229	10 500
3323	Architectural & structural metals mfg	2	19	8	559	16 699	424	881	10 315	38 698	43 008	81 171	1 988
3327	Machine shops, turned product, & screw, nut, & bolt mfg	3	47	9	545	17 311	422	791	11 695	32 302	17 804	48 379	2 256
3328	Coating, engraving, heat treating, & allied activities.	-	13	7	874	20 744	694	1 369	13 350	36 729	15 664	52 424	1 629
33281	Coating, engraving, heat treating, & allied activities	-	13	7	874	20 744	694	1 369	13 350	36 729	15 664	52 424	1 629
332813	Electroplating, plating, polishing, anodizing, & coloring	-	7	4	638	14 767	492	1 019	9 296	14 336	3 967	18 373	D
333	Machinery mfg	-	86	41	7 281	274 474	5 076	10 814	171 581	1 130 406	1 228 429	2 389 732	116 335
3332	Industrial machinery mfg ..	1	33	17	2 336	78 703	1 531	3 096	43 697	165 926	124 866	290 501	11 557
33329	Other industrial machinery mfg	2	32	16	g	D	D	D	D	D	D	D	D
333292	Textile machinery mfg ..	-	27	14	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	18	5	755	30 425	517	1 317	18 468	49 856	30 622	80 355	D
33351	Metalworking machinery mfg	-	18	5	755	30 425	517	1 317	18 468	49 856	30 622	80 355	D
3336	Engine, turbine, & power transmission equipment mfg	-	5	4	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	5	4	h	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	-	2	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	16	7	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	9	5	f	D	D	D	D	D	D	D	D

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31-33	GREENVILLE COUNTY, SC—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	16	7	i	D	D	D	D	D	D	D	44 400
3344	Semiconductor & other electronic component mfg.....	-	7	4	i	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	7	4	i	D	D	D	D	D	D	D	D
334411	Electron tube mfg....	-	1	1	g	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	1	13	7	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	1	6	5	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	19	11	2 888	109 491	2 384	4 797	80 166	310 979	255 056	554 501	28 749
3363	Motor vehicle parts mfg ...	-	13	6	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	37	11	g	D	D	D	D	D	D	D	3 658
339	Miscellaneous mfg.....	1	43	5	882	20 078	743	1 335	13 590	48 676	60 138	102 191	D
3399	Other miscellaneous mfg ..	1	27	5	837	19 125	711	1 286	13 093	45 860	59 072	98 261	1 672
33992	Sporting & athletic goods mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
31-33	GREENWOOD COUNTY, SC												
	Manufacturing	-	93	41	11 612	339 599	9 767	20 355	250 422	944 939	960 701	1 875 085	62 524
311	Food mfg.....	-	7	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering.....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills.....	2	12	9	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	9	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills.....	9	2	2	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	9	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	7	6	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	7	6	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	7	6	g	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	6	4	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	11	3	f	D	D	D	D	D	D	D	1 130

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
GREENWOOD COUNTY, SC—Con.														
31-33	Manufacturing—Con.													
334	Computer & electronic product mfg.....	-	4	3	g	D	D	D	D	D	D	D	D	
3346	Mfg & reproducing magnetic & optical media .	-	1	1	g	D	D	D	D	D	D	D	D	
33461	Mfg & reproducing magnetic & optical media	-	1	1	g	D	D	D	D	D	D	D	D	
334613	Magnetic & optical recording media mfg .	-	1	1	g	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D	
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D	
HAMPTON COUNTY, SC														
31-33	Manufacturing	-	20	8		1 307	44 156	1 055	2 833	30 408	97 507	98 916	196 652	15 376
326	Plastics & rubber products mfg	-	5	4		842	29 910	662	1 822	21 055	60 168	48 527	109 895	D
3261	Plastics product mfg	-	5	4		842	29 910	662	1 822	21 055	60 168	48 527	109 895	D
32613	Laminated plastics plate, sheet, & shape mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
HORRY COUNTY, SC														
31-33	Manufacturing	-	160	31		6 687	173 408	4 559	9 377	98 927	565 171	388 326	927 797	46 983
332	Fabricated metal product mfg	-	18	5		1 037	28 294	731	1 461	19 279	109 999	39 587	143 798	6 970
3329	Other fabricated metal product mfg	-	4	3		926	25 928	656	1 355	17 707	105 008	36 686	136 302	D
33291	Metal valve mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	3		571	14 532	315	499	6 587	43 148	58 101	89 542	3 727
334	Computer & electronic product mfg	-	4	2	g	D	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	D
33441	Semiconductor & other electronic component mfg	-	2	2	g	D	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg	-	1	1	g	D	D	D	D	D	D	D	D	D
KERSHAW COUNTY, SC														
31-33	Manufacturing	-	62	29		4 916	151 847	3 894	7 726	112 960	979 902	661 536	1 637 889	57 541
313	Textile mills	-	5	4		813	25 189	683	1 413	19 395	62 143	84 179	145 706	13 579
3132	Fabric mills	-	4	4	f	D	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	3	3	f	D	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	3	f	D	D	D	D	D	D	D	D	D
314	Textile product mills.....	8	9	6		550	8 339	384	751	5 291	13 057	12 606	25 708	1 581
3149	Other textile product mills..	8	9	6		550	8 339	384	751	5 291	13 057	12 606	25 708	1 581
325	Chemical mfg	-	4	3	g	D	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	g	D	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	g	D	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	g	D	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)				
LANCASTER COUNTY, SC													
31-33	Manufacturing	-	54	26	5 341	145 496	4 627	9 037	112 770	510 375	1 063 902	1 561 649	68 284
313	Textile mills	-	2	2	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	1	1	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	-	1	1	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	1	1	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	1	1	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	1	1	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	1	1	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	1	1	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	1	1	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	3	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
33591	Battery mfg	-	1	1	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg	-	1	1	g	D	D	D	D	D	D	D	D
LAURENS COUNTY, SC													
31-33	Manufacturing	-	72	29	6 447	171 741	5 483	10 944	127 957	405 335	432 167	834 106	32 778
313	Textile mills	-	10	6	1 858	48 708	1 676	3 507	40 596	97 724	144 519	244 650	7 737
3132	Fabric mills	-	4	4	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	3	3	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	24	7	2 042	58 523	1 753	3 569	46 812	155 656	87 860	245 774	12 652
3329	Other fabricated metal product mfg	-	2	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	2	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	g	D	D	D	D	D	D	D	D
LEE COUNTY, SC													
31-33	Manufacturing	-	9	7	641	18 258	503	1 047	15 181	60 521	110 938	172 411	D
LEXINGTON COUNTY, SC													
31-33	Manufacturing	-	225	68	9 964	324 221	7 032	13 893	186 745	1 035 380	1 046 554	2 080 733	65 706
311	Food mfg	2	9	7	f	D	D	D	D	D	D	D	D
313	Textile mills	2	4	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills	2	3	3	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery	2	3	3	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	2	3	3	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	36	7	f	D	D	D	D	D	D	D	1 476
3231	Printing & related support activities	3	36	7	f	D	D	D	D	D	D	D	1 476
32311	Printing	3	36	7	f	D	D	D	D	D	D	D	1 476
326	Plastics & rubber products mfg	-	14	5	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	1	11	4	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	3	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	45	14	1 378	34 216	958	1 930	22 237	77 449	79 225	155 961	2 892
3323	Architectural & structural metals mfg	-	19	9	984	24 000	700	1 456	16 062	56 259	65 012	120 699	1 953
33231	Plate work & fabricated structural product mfg	-	11	6	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	9	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	18	3	505	16 619	391	816	12 396	46 771	21 794	65 271	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LEXINGTON COUNTY, SC—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	8	4	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	8	3	633	19 657	374	602	9 857	31 665	32 642	60 693	D
3365	Railroad rolling stock mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
MARION COUNTY, SC													
31-33	Manufacturing	-	32	19	5 007	112 496	4 046	8 487	83 068	389 018	336 771	727 005	16 866
311	Food mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	-	1	1	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills.....	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills..	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	5	5	1 571	29 578	1 240	2 606	20 089	153 671	94 334	249 403	D
3152	Cut & sew apparel mfg....	-	4	4	g	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
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	-	1	1	f	D	D	D	D	D	D	D	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
336391	Motor vehicle air-conditioning mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
MARLBORO COUNTY, SC													
31-33	Manufacturing	-	22	14	2 935	82 107	2 362	5 264	58 867	318 867	433 610	755 182	10 311
313	Textile mills.....	-	3	3	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills..	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills.....	-	1	1	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills.....	-	2	2	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills.....	-	2	2	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills.....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	2	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NEWBERRY COUNTY, SC													
31-33	Manufacturing	-	49	29	5 553	130 517	4 983	10 665	106 505	304 004	433 335	735 403	19 784
311	Food mfg	-	5	3	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
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	4	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	2	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	12	7	643	17 408	583	1 238	14 951	57 945	84 533	142 631	2 837
OCONEE COUNTY, SC													
31-33	Manufacturing	-	80	37	7 487	202 797	5 877	11 834	137 670	637 471	499 256	1 135 988	66 978
313	Textile mills	3	5	4	1 331	34 698	1 215	2 131	28 367	87 783	96 374	204 673	20 219
3132	Fabric mills	4	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	5	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	5	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	5	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	6	619	14 925	549	938	11 596	60 766	23 893	85 250	4 570
333	Machinery mfg	-	14	7	f	D	D	D	D	D	D	D	6 095
334	Computer & electronic product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	5	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	3	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	3	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
ORANGEBURG COUNTY, SC													
31-33	Manufacturing	-	90	44	9 370	222 899	7 235	14 595	141 614	644 170	1 063 937	1 700 258	75 615
311	Food mfg	-	7	3	611	15 253	273	558	6 499	58 132	59 984	117 758	995
315	Apparel mfg	9	5	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	9	5	3	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	9	3	2	f	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	9	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	19	12	1 042	24 516	848	1 668	16 735	61 114	129 341	188 020	4 242
325	Chemical mfg	-	6	3	615	28 597	376	903	13 204	100 905	160 397	255 553	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ORANGEBURG COUNTY, SC—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg.....	-	9	4	1 128	36 677	840	1 827	20 537	78 031	81 934	160 307	D
3329	Other fabricated metal product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	4	3	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	1	1	h	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
PICKENS COUNTY, SC													
31-33	Manufacturing	-	134	55	11 790	305 732	9 973	20 184	226 893	616 801	1 299 803	1 916 285	76 288
313	Textile mills.....	-	20	15	4 084	96 495	3 740	7 326	83 017	114 433	485 731	609 205	39 058
3132	Fabric mills.....	-	15	13	h	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills..	-	11	10	3 264	75 517	3 021	5 774	66 781	147 705	200 175	353 762	31 659
313210	Broadwoven fabric mills.....	-	11	10	3 264	75 517	3 021	5 774	66 781	147 705	200 175	353 762	31 659
314	Textile product mills.....	-	2	2	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	2	2	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	2	2	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills.....	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	30	10	1 136	33 401	907	1 694	22 338	76 832	67 375	143 813	7 037
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
332912	Fluid power valve & hose fitting mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	23	9	h	D	D	D	D	D	D	D	14 145
3335	Metalworking machinery mfg.....	-	10	5	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg.....	-	10	5	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	-	5	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	6	3	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	-	3	1	g	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
RICHLAND COUNTY, SC													
31-33	Manufacturing	-	235	94	13 558	460 800	9 617	19 241	275 748	1 464 063	1 762 453	3 220 723	118 399
322	Paper mfg.....	-	9	7	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills.....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills.....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	-	8	6	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	4	51	11	f	D	D	D	D	D	D	D	6 097
3231	Printing & related support activities.....	4	51	11	f	D	D	D	D	D	D	D	6 097
32311	Printing.....	4	46	10	f	D	D	D	D	D	D	D	5 798
323110	Commercial lithographic printing..	4	19	7	f	D	D	D	D	D	D	D	4 541

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RICHLAND COUNTY, SC—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg	-	15	9	3 382	149 137	2 336	4 699	91 630	598 247	584 234	1 166 904	D
3251	Basic chemical mfg	-	4	2	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	2	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	2	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	5	5	2 336	103 010	1 801	3 721	71 315	450 784	454 214	882 249	45 735
32521	Resin & synthetic rubber mfg	-	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	4	4	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	4	4	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	2	15	7	f	D	D	D	D	D	D	D	4 864
332	Fabricated metal product mfg	-	33	14	1 878	56 506	1 283	2 455	30 106	142 639	248 856	388 789	11 392
3323	Architectural & structural metals mfg	-	12	5	802	24 623	496	985	9 795	50 864	190 495	238 507	6 636
33231	Plate work & fabricated structural product mfg ..	-	6	4	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	5	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	19	7	862	28 137	575	1 219	14 819	50 555	67 302	121 510	D
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	7	4	551	14 823	405	788	8 884	35 707	71 484	108 152	D
SALUDA COUNTY, SC													
31-33	Manufacturing	-	14	10	2 565	46 933	2 287	4 381	35 738	144 766	221 193	375 154	10 611
311	Food mfg	-	3	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	3	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
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ...	-	3	3	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	2	2	f	D	D	D	D	D	D	D	D
SPARTANBURG COUNTY, SC													
31-33	Manufacturing	-	481	207	35 102	1 108 590	27 391	55 217	746 017	3 172 178	4 414 741	7 534 645	350 023
311	Food mfg	-	14	5	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SPARTANBURG COUNTY, SC—Con.												
	Manufacturing—Con.												
313	Textile mills	-	52	35	7 787	203 847	6 577	13 768	152 058	532 154	606 233	1 148 506	D
3131	Fiber, yarn, & thread mills .	-	9	8	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	9	8	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	7	6	f	D	D	D	D	D	D	D	D
3132	Fabric mills	1	32	24	5 916	150 215	5 087	10 407	115 296	304 019	395 664	706 089	D
31321	Broadwoven fabric mills .	1	20	15	4 436	111 392	3 972	8 063	91 361	214 511	309 558	530 579	D
313210	Broadwoven fabric mills	1	20	15	4 436	111 392	3 972	8 063	91 361	214 511	309 558	530 579	D
31322	Narrow fabric mills & schiffli machine embroidery	5	5	4	f	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills ...	-	4	3	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .	-	4	3	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	11	3	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	10	2	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	10	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	-	19	10	2 184	58 255	1 925	3 828	45 826	141 650	295 569	393 954	9 496
3141	Textile furnishings mills....	-	6	2	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills....	-	3	1	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	3	1	g	D	D	D	D	D	D	D	D
3149	Other textile product mills .	-	13	8	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	8	4	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	7	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg	3	17	13	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	16	14	1 479	46 738	1 167	2 459	30 939	124 414	174 017	296 732	11 470
3222	Converted paper product mfg	-	15	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	11	10	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg.....	-	7	7	658	21 625	505	1 000	12 619	51 463	87 152	138 158	D
32222	Paper bag & coated & treated paper mfg	-	3	3	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	39	7	1 266	39 488	929	1 758	29 024	92 600	75 509	167 749	7 690
3231	Printing & related support activities.....	-	39	7	1 266	39 488	929	1 758	29 024	92 600	75 509	167 749	7 690
32311	Printing	-	35	6	g	D	D	D	D	D	D	D	D
323111	Commercial gravure printing	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	32	15	h	D	D	D	D	D	D	D	82 877
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	3	3	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	35	20	2 919	94 528	2 410	4 567	73 202	224 215	354 516	578 256	23 828
3261	Plastics product mfg	2	28	17	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	18	11	1 031	26 696	819	1 576	19 058	88 917	81 658	171 653	D
326199	All other plastics product mfg.....	2	18	11	1 031	26 696	819	1 576	19 058	88 917	81 658	171 653	D
3262	Rubber product mfg	-	7	3	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	3	2	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	2	2	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	17	10	1 812	59 409	1 406	2 913	42 299	143 059	71 145	215 210	D
3271	Clay product & refractory mfg	1	4	4	g	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	1	3	3	g	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	1	1	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	-	8	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)					
	SPARTANBURG COUNTY, SC—Con.													
31-33	Manufacturing—Con.													
331	Primary metal mfg	—	9	3	f	D	D	D	D	D	D	D	D	
3314	Nonferrous metal (except aluminum) production & processing	—	5	1		534	16 369	455	902	12 858	46 304	37 594	81 824	9 043
332	Fabricated metal product mfg	—	74	18		1 786	58 801	1 352	2 732	41 644	169 814	112 050	277 617	11 977
3329	Other fabricated metal product mfg	—	4	4		701	24 413	535	1 233	19 063	102 867	45 107	145 666	D
333	Machinery mfg	—	49	21		2 688	88 623	1 994	4 016	52 179	296 037	195 612	496 547	13 718
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	4	1	f	D	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	4	1	f	D	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	D
3335	Metalworking machinery mfg	—	14	6		500	13 892	368	785	8 589	29 674	15 091	43 691	2 416
33351	Metalworking machinery mfg	—	14	6		500	13 892	368	785	8 589	29 674	15 091	43 691	2 416
3339	Other general-purpose machinery mfg	—	12	5	f	D	D	D	D	D	D	D	D	6 501
33399	All other general-purpose machinery mfg	—	8	5	f	D	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	6	6	g	D	D	D	D	D	D	D	D	16 786
3344	Semiconductor & other electronic component mfg	—	3	3	g	D	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	3	3	g	D	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	14	7		1 602	52 945	1 089	2 319	27 599	204 113	247 505	444 850	D
3351	Electric lighting equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	—	7	4	f	D	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	7	4	f	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	24	14		4 170	156 541	3 159	6 181	100 602	353 334	1 192 517	1 546 006	117 809
3361	Motor vehicle mfg	—	3	1	g	D	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	3	1	g	D	D	D	D	D	D	D	D	D
336111	Automobile mfg	—	3	1	g	D	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	—	15	12	g	D	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	2	5	4	f	D	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	2	5	4	f	D	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	—	2	2	f	D	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	—	2	2	f	D	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	26	5	f	D	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)				
SUMTER COUNTY, SC													
31-33	Manufacturing	-	84	50	12 655	303 045	10 941	21 438	227 700	976 820	1 073 585	2 050 389	62 670
311	Food mfg	-	4	3	h	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	h	D	D	D	D	D	D	D	D
313	Textile mills	-	5	4	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	4	4	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	4	4	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	2	2	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	4	3	514	7 252	469	820	5 812	14 398	13 628	28 259	D
3141	Textile furnishings mills	-	3	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	4	4	593	17 762	474	983	11 461	35 885	112 138	142 385	9 785
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	2	2	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
327215	Glass product mfg made of purchased glass	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	9	1 666	44 351	1 502	3 277	35 006	147 040	68 947	220 933	4 854
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
335	Electrical equipment, appliance, & component mfg	-	3	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	4	1 166	37 764	1 006	2 405	30 030	173 404	187 347	360 282	D
3363	Motor vehicle parts mfg	-	3	3	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	10	7	1 691	36 042	1 534	3 036	29 579	78 113	68 793	151 347	3 179
3371	Household & institutional furniture & kitchen cabinet mfg	-	5	4	g	D	D	D	D	D	D	D	2 553
33712	Household & institutional furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
337122	Nonupholstered wood household furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
UNION COUNTY, SC													
31-33	Manufacturing	-	43	26	5 355	129 204	4 341	8 643	91 332	341 642	338 317	679 568	34 695
313	Textile mills	-	15	11	3 751	85 003	2 997	6 066	60 668	205 606	241 861	446 123	23 755
3131	Fiber, yarn, & thread mills	2	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	2	2	2	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	2	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	6	5	1 690	33 683	1 307	2 435	23 266	116 957	138 371	254 401	D
31321	Broadwoven fabric mills	-	3	3	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	3	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills	-	2	1	g	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills	-	1	1	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	7	4	g	D	D	D	D	D	D	D	12 712
31331	Textile & fabric finishing mills	-	7	4	g	D	D	D	D	D	D	D	12 712
313311	Broadwoven fabric finishing mills	-	4	3	g	D	D	D	D	D	D	D	D

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UNION COUNTY, SC—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	8	3	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	f	D	D	D	D	D	D	D	D
WILLIAMSBURG COUNTY, SC													
31-33	Manufacturing	-	34	19	3 392	86 777	2 828	6 239	63 214	246 560	243 567	533 447	27 178
325	Chemical mfg	-	3	2	1 046	33 403	816	2 241	22 066	82 568	104 553	186 565	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	3	3	1 090	31 990	924	2 006	25 394	117 831	67 205	225 966	D
3261	Plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D
YORK COUNTY, SC													
31-33	Manufacturing	-	222	90	11 731	391 776	8 688	17 822	250 349	1 162 970	1 159 681	2 325 716	77 608
313	Textile mills	-	19	16	2 137	45 209	1 880	3 892	36 088	102 136	174 360	277 097	6 302
3131	Fiber, yarn, & thread mills .	-	5	4	866	17 341	828	1 751	15 941	33 843	55 802	90 842	D
31311	Fiber, yarn, & thread mills	-	5	4	866	17 341	828	1 751	15 941	33 843	55 802	90 842	D
313111	Yarn spinning mills ...	-	5	4	866	17 341	828	1 751	15 941	33 843	55 802	90 842	D
3133	Textile & fabric finishing & fabric coating mills	-	5	5	815	17 297	656	1 330	11 734	41 527	91 219	132 607	D
31331	Textile & fabric finishing mills	-	4	4	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	4	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	9	5	1 524	78 616	1 098	2 316	54 329	330 141	224 883	564 120	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	22	13	2 206	84 248	1 584	3 403	50 476	278 931	264 170	538 697	14 155
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	1	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
325221	Cellulosic organic fiber mfg	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	45	12	1 205	32 884	916	1 863	21 416	93 228	79 308	171 012	6 012
333	Machinery mfg	-	23	10	868	39 163	449	828	19 812	100 714	84 090	183 909	5 079
335	Electrical equipment, appliance, & component mfg	-	9	7	664	21 202	480	1 020	11 316	47 838	52 168	99 888	3 094
336	Transportation equipment mfg	-	7	4	1 027	31 285	783	1 537	20 605	54 255	59 383	116 221	7 932
3363	Motor vehicle parts mfg ...	-	4	4	g	D	D	D	D	D	D	D	7 864
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

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; g–500 to 999 employees; i–1,000 to 2,499 employees, h–2,500 to 4,999 employees; j–5,000 to 9,999 employees; k–10,000 to 24,999 employees; l–25,000 to 49,999 employees; m–50,000 to 99,999 employees; n–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)				
ABBEVILLE, SC													
31-33	Manufacturing	-	17	11	1 890	44 690	1 618	3 321	33 119	96 267	162 719	255 547	17 037
313	Textile mills	-	3	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	3	3	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	5	4	4	f	D	D	D	D	D	D	D	D
AIKEN, SC													
31-33	Manufacturing	3	38	18	4 692	139 587	3 891	8 141	102 363	652 632	368 634	1 009 177	D
325	Chemical mfg	-	4	3	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg . .	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	9	4	1	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	9	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	9	1	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	9	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	6	1 042	22 561	870	1 911	15 836	81 144	54 320	130 241	7 046
3329	Other fabricated metal product mfg	-	4	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
ALLENDALE, SC													
31-33	Manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
ANDERSON, SC													
31-33	Manufacturing	-	73	32	9 005	285 627	7 057	15 341	196 531	962 649	1 170 997	2 141 443	111 669
313	Textile mills	1	6	4	g	D	D	D	D	D	D	D	15 838
3132	Fabric mills	-	3	3	1 567	47 342	1 255	2 921	31 579	101 098	96 552	205 236	D
31321	Broadwoven fabric mills .	-	3	3	1 567	47 342	1 255	2 921	31 579	101 098	96 552	205 236	D
313210	Broadwoven fabric mills	-	3	3	1 567	47 342	1 255	2 921	31 579	101 098	96 552	205 236	D
314	Textile product mills	-	5	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg . .	-	1	1	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	6	10	4	855	22 221	575	1 130	12 576	91 874	88 629	179 850	4 178
3261	Plastics product mfg	-	7	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	5	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	5	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	2	2	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
332	Fabricated metal product mfg	-	17	6	597	17 879	417	835	10 699	50 708	27 814	80 144	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ANDERSON, SC—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	2	2	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D
335222	Household refrigerator & home freezer mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
ANDREWS, SC *													
31-33	Manufacturing	1	21	14	1 402	27 529	1 099	1 909	21 289	40 248	107 067	144 895	D
315	Apparel mfg	6	7	7	f	D	D	D	D	D	D	D	D
BARNWELL, SC													
31-33	Manufacturing	-	9	4	f	D	D	D	D	D	D	D	16 124
315	Apparel mfg	-	3	2	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	1	1	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	1	1	f	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	-	1	1	f	D	D	D	D	D	D	D	D
BATESBURG-LEESVILLE, SC *													
31-33	Manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
BELTON, SC													
31-33	Manufacturing	-	8	6	928	22 502	788	1 460	16 115	58 566	102 385	160 747	2 002
313	Textile mills	-	3	3	554	13 352	478	892	9 465	31 878	51 725	83 876	D
3132	Fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
BENNETTSVILLE, SC													
31-33	Manufacturing	-	11	6	1 494	37 163	1 230	2 632	26 531	112 136	168 289	284 149	D
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	1	1	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	2	2	f	D	D	D	D	D	D	D	D
BLACKVILLE, SC													
31-33	Manufacturing	1	3	3	f	D	D	D	D	D	D	D	D
CAMDEN, SC													
31-33	Manufacturing	-	16	6	691	19 240	572	968	15 480	38 197	63 022	101 224	D
CAYCE, SC													
31-33	Manufacturing	-	26	11	1 312	35 860	902	2 015	23 688	98 116	126 942	221 447	12 914
332	Fabricated metal product mfg	-	7	4	f	D	D	D	D	D	D	D	1 322

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CHARLESTON, SC *													
31-33	Manufacturing	-	84	13	1 985	65 676	1 435	2 979	43 138	362 268	254 146	602 932	D
325	Chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	4	2	612	17 716	390	927	10 463	44 620	29 863	74 487	D
3366	Ship & boat building	3	4	2	612	17 716	390	927	10 463	44 620	29 863	74 487	D
33661	Ship & boat building	3	4	2	612	17 716	390	927	10 463	44 620	29 863	74 487	D
336611	Ship building & repairing	3	3	2	f	D	D	D	D	D	D	D	D
CHERAW, SC													
31-33	Manufacturing	-	21	13	3 107	88 968	2 442	5 370	64 521	314 204	409 149	722 518	23 118
313	Textile mills	1	4	4	f	D	D	D	D	D	D	D	12 477
332	Fabricated metal product mfg	-	7	5	g	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	2	2	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg .	-	2	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	2	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	2	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	2	2	g	D	D	D	D	D	D	D	D
CHESTER, SC													
31-33	Manufacturing	-	22	11	1 259	39 673	968	2 185	27 010	112 594	149 199	262 194	D
CLEMSON, SC *													
31-33	Manufacturing	-	9	4	g	D	D	D	D	D	D	D	22 198
313	Textile mills	-	3	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	-	1	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	1	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	1	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	1	1	f	D	D	D	D	D	D	D	D
CLINTON, SC													
31-33	Manufacturing	-	10	4	2 496	69 345	2 259	4 649	57 922	171 208	106 893	281 547	D
313	Textile mills	-	3	2	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	1	1	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	3	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	g	D	D	D	D	D	D	D	D
CLOVER, SC													
31-33	Manufacturing	1	18	8	689	15 635	491	960	8 742	37 279	18 944	56 820	1 812

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
COLUMBIA, SC *													
31-33	Manufacturing	-	105	33	7 137	253 435	5 185	10 510	156 619	763 766	895 855	1 648 289	63 153
322	Paper mfg	-	3	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	3	2	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	8	6	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	4	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	3	3	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	3	826	25 772	590	1 199	15 076	42 834	95 634	137 030	3 173
CONWAY, SC													
31-33	Manufacturing	-	26	9	1 666	42 996	1 217	2 436	29 828	187 914	140 601	309 804	11 272
332	Fabricated metal product mfg	-	6	3	f	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
DARLINGTON, SC													
31-33	Manufacturing	-	10	6	1 614	46 758	1 248	2 436	31 974	255 326	513 334	770 081	28 859
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	1	1	f	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
325	Chemical mfg	-	2	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
DILLON, SC													
31-33	Manufacturing	-	11	8	2 461	41 275	2 319	4 274	34 364	96 939	154 171	249 347	17 032
311	Food mfg	-	2	1	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
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	2	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EASLEY, SC													
31-33	Manufacturing	1	41	20	3 075	76 496	2 492	4 448	50 680	169 708	152 002	330 441	15 522
313	Textile mills	-	3	3	560	12 610	502	1 028	10 609	29 953	28 306	58 839	D
3132	Fabric mills	-	3	3	560	12 610	502	1 028	10 609	29 953	28 306	58 839	D
31321	Broadwoven fabric mills .	-	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	4	729	20 980	570	971	13 379	47 480	44 365	91 869	5 607
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
332912	Fluid power valve & hose fitting mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	4	570	18 302	405	753	10 501	24 379	24 820	51 756	D
FLORENCE, SC													
31-33	Manufacturing	-	52	21	4 653	148 582	3 107	5 970	76 199	343 276	354 230	701 179	19 747
311	Food mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D
FORT MILL, SC													
31-33	Manufacturing	4	26	10	968	29 016	612	1 167	16 771	94 108	100 901	193 919	5 130
FOUNTAIN INN, SC *													
31-33	Manufacturing	-	30	17	3 252	86 048	2 700	4 502	58 712	207 433	276 571	484 584	39 484
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg	-	1	1	f	D	D	D	D	D	D	D	D
GAFFNEY, SC													
31-33	Manufacturing	-	39	27	5 638	175 267	4 616	9 229	133 959	727 739	707 793	1 430 777	D
311	Food mfg	-	2	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills	-	12	11	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	5	5	952	29 803	830	1 745	23 486	61 889	85 167	147 750	D
31321	Broadwoven fabric mills .	-	4	4	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	4	4	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	5	4	593	15 562	470	820	10 860	25 047	20 916	44 427	1 875
31331	Textile & fabric finishing mills	-	5	4	593	15 562	470	820	10 860	25 047	20 916	44 427	1 875
332	Fabricated metal product mfg	-	5	4	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	f	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GEORGETOWN, SC													
31-33	Manufacturing	-	23	6	1 474	46 042	1 316	2 178	33 714	110 332	222 393	328 082	14 478
331	Primary metal mfg	-	1	1	f	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
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
33593	Wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
GOOSE CREEK, SC *													
31-33	Manufacturing	-	12	8	2 621	107 223	1 717	3 938	60 147	388 649	721 568	1 205 186	33 882
325	Chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	-	1	1	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	-	1	1	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	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
331312	Primary aluminum production	-	1	1	f	D	D	D	D	D	D	D	D
GREENVILLE, SC													
31-33	Manufacturing	-	159	64	14 641	504 173	11 402	23 225	350 300	1 955 952	2 060 529	4 021 744	141 736
313	Textile mills	-	11	9	2 647	65 242	2 336	4 811	52 063	172 855	129 025	300 856	29 339
3132	Fabric mills	-	7	6	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	4	3	1 473	37 339	1 341	2 739	32 165	116 863	50 331	165 434	D
313210	Broadwoven fabric mills	-	4	3	1 473	37 339	1 341	2 739	32 165	116 863	50 331	165 434	D
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
32222	Paper bag & coated & treated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	1	9	5	564	19 497	367	736	9 950	27 651	143 466	178 306	7 472
326	Plastics & rubber products mfg	-	8	5	1 585	59 727	1 481	3 089	53 575	208 097	240 489	451 007	D
3262	Rubber product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	18	9	3 587	141 795	2 468	5 241	90 094	834 851	843 295	1 709 905	50 497
3332	Industrial machinery mfg ..	-	7	5	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	7	5	g	D	D	D	D	D	D	D	D
333292	Textile machinery mfg	-	6	5	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	4	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	2	g	D	D	D	D	D	D	D	D
334411	Electron tube 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)					
31-33	GREENVILLE, SC— Con.													
	Manufacturing— Con.													
335	Electrical equipment, appliance, & component mfg	-	4	2	f	D	D	D	D	D	D	D	D	
3359	Other electrical equipment & component mfg	-	2	2	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	3	1	g	D	D	D	D	D	D	D	D	
3364	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D	
33641	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D	
336411	Aircraft mfg	-	1	1	g	D	D	D	D	D	D	D	D	
	GREENWOOD, SC													
31-33	Manufacturing	-	51	25		7 027	212 111	5 842	12 415	156 626	581 116	567 579	1 131 653	24 513
311	Food mfg	-	3	1	f	D	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	f	D	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	f	D	D	D	D	D	D	D	D	D
313	Textile mills	3	5	4	g	D	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills	9	2	2	f	D	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	9	2	2	f	D	D	D	D	D	D	D	D	D
313111	Yarn spinning mills	9	2	2	f	D	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	f	D	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D	D
325	Chemical mfg	-	3	2	f	D	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	-	3	2	f	D	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	-	3	2	f	D	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg	-	2	1	f	D	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	3	2	g	D	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media	-	1	1	g	D	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	1	1	g	D	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg	-	1	1	g	D	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	D
3353	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
	GREER, SC *													
31-33	Manufacturing	2	42	21		1 857	58 560	1 283	2 512	34 221	122 246	171 280	292 074	18 042
333	Machinery mfg	4	6	5		781	27 441	551	1 140	17 964	42 124	63 786	104 036	9 656
	HAMPTON, SC													
31-33	Manufacturing	-	3	2	f	D	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	2	2	f	D	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, & shape mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
	HARTSVILLE, SC													
31-33	Manufacturing	-	15	9		1 389	48 523	1 218	2 359	40 078	147 943	199 952	345 135	D
322	Paper mfg	-	3	3	f	D	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HONEA PATH, SC *													
31-33	Manufacturing	-	10	7	1 693	40 024	1 481	2 877	31 827	48 931	89 405	140 545	5 000
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	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
33635	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
JOHNSTON, SC													
31-33	Manufacturing	1	4	3	898	17 643	766	1 428	13 152	52 869	99 494	153 252	D
LAKE CITY, SC													
31-33	Manufacturing	-	12	9	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	2	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	1	1	f	D	D	D	D	D	D	D	D
LANCASTER, SC													
31-33	Manufacturing	-	15	9	3 739	105 796	3 285	6 574	83 371	412 470	840 033	1 240 908	49 034
313	Textile mills	-	1	1	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	1	1	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	1	1	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	1	1	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	1	1	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	1	1	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	1	1	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	1	1	g	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
3359	Other electrical equipment & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
33591	Battery mfg	-	1	1	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg....	-	1	1	g	D	D	D	D	D	D	D	D
LAURENS, SC													
31-33	Manufacturing	-	15	4	989	24 586	830	1 711	19 832	59 191	96 080	152 833	1 221
LEXINGTON, SC													
31-33	Manufacturing	-	30	8	740	20 629	617	1 241	14 902	46 666	73 400	121 714	4 188
LIBERTY, SC													
31-33	Manufacturing	-	8	2	761	22 571	598	1 229	15 426	53 290	51 873	105 184	2 249

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARION, SC													
31-33	Manufacturing	-	14	8	2 578	60 442	2 137	4 611	45 880	169 036	164 727	333 445	8 790
311	Food mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	-	1	1	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills.....	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills..	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
MAULDIN, SC													
31-33	Manufacturing	2	29	12	1 355	36 656	1 000	1 995	20 054	97 074	122 175	219 098	4 623
MONCK'S CORNER, SC													
31-33	Manufacturing	-	8	3	843	16 109	565	1 046	11 862	98 506	37 497	136 681	D
326	Plastics & rubber products mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg..	-	1	1	f	D	D	D	D	D	D	D	D
MULLINS, SC													
31-33	Manufacturing	-	5	3	g	D	D	D	D	D	D	D	1 219
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
31522	Men's & boys' cut & sew apparel mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
MYRTLE BEACH, SC													
31-33	Manufacturing	-	46	6	h	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
NEWBERRY, SC													
31-33	Manufacturing	-	15	8	2 655	59 214	2 502	5 660	52 325	84 680	220 593	302 777	7 385
311	Food mfg.....	-	3	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
311615	Poultry processing.....	-	2	2	g	D	D	D	D	D	D	D	D
313	Textile mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills..	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NORTH CHARLESTON, SC*													
31-33	Manufacturing	-	108	40	5 292	188 572	3 667	7 399	109 644	573 669	665 094	1 237 010	89 754
314	Textile product mills	8	4	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	9	2	1	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	9	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	9	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
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
ORANGEBURG, SC													
31-33	Manufacturing	-	34	15	4 636	97 082	3 510	7 268	59 646	293 434	633 233	925 494	35 870
311	Food mfg	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	h	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
PAGELAND, SC													
31-33	Manufacturing	1	9	8	1 576	38 053	1 336	2 620	27 514	112 089	97 878	213 331	6 158
313	Textile mills	5	4	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
PENDLETON, SC													
31-33	Manufacturing	-	11	4	f	D	D	D	D	D	D	D	D
PICKENS, SC													
31-33	Manufacturing	7	11	4	582	10 021	496	854	8 436	15 341	18 013	35 659	2 446
ROCK HILL, SC													
31-33	Manufacturing	-	75	36	4 658	151 944	3 380	6 973	90 282	420 258	485 801	901 096	24 689
313	Textile mills	-	3	3	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	-	3	3	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	-	2	2	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	9	7	1 784	69 759	1 353	2 956	44 042	222 834	195 151	414 296	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
325221	Cellulosic organic fiber mfg	-	1	1	g	D	D	D	D	D	D	D	D
SALUDA, SC													
31-33	Manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	2	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SENECA, SC													
31-33	Manufacturing	-	23	9	2 774	76 106	2 208	4 514	53 986	190 098	217 446	393 287	24 133
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	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
335314	Relay & industrial control mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	2	1	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
SIMPSONVILLE, SC													
31-33	Manufacturing	-	23	9	2 416	91 390	1 982	4 204	64 795	262 930	214 308	478 350	D
326	Plastics & rubber products mfg	-	4	3	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	1	1	g	D	D	D	D	D	D	D	D
326112	Unsupported plastics packaging film & sheet mfg	-	1	1	g	D	D	D	D	D	D	D	D
SPARTANBURG, SC													
31-33	Manufacturing	-	93	40	8 867	311 422	7 080	13 940	223 053	754 617	1 579 578	2 339 512	134 553
313	Textile mills	-	14	10	1 255	34 251	1 034	2 282	25 496	121 063	103 661	225 016	D
3132	Fabric mills	-	7	5	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	5	4	555	14 987	473	1 027	10 988	56 288	38 557	95 975	D
313210	Broadwoven fabric mills	-	5	4	555	14 987	473	1 027	10 988	56 288	38 557	95 975	D
323	Printing & related support activities	-	14	3	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	14	3	f	D	D	D	D	D	D	D	D
32311	Printing	-	14	3	f	D	D	D	D	D	D	D	D
323111	Commercial gravure printing	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	3	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	4	3	g	D	D	D	D	D	D	D	D
3271	Clay product & refractory mfg	1	3	3	g	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg	1	2	2	g	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	7	3	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	2	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	-	3	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SUMMERVILLE, SC *													
31-33	Manufacturing	-	40	15	1 654	45 244	1 267	2 645	29 588	114 427	171 587	284 134	10 203
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
SUMTER, SC													
31-33	Manufacturing	-	59	34	10 009	234 437	8 857	16 934	180 898	810 636	706 834	1 522 276	51 037
311	Food mfg	-	2	1	h	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	h	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	1	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
327215	Glass product mfg made of purchased glass	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	14	7	g	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg .	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	4	1 166	37 764	1 006	2 405	30 030	173 404	187 347	360 282	D
3363	Motor vehicle parts mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	6	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
33712	Household & institutional furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
337122	Nonupholstered wood household furniture mfg	-	4	3	1 352	27 779	1 256	2 457	23 210	58 812	45 025	106 468	2 553
TRAVELERS REST, SC													
31-33	Manufacturing	2	14	10	1 529	31 111	1 267	2 508	20 297	82 687	62 394	145 194	2 826
313	Textile mills	7	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	7	2	2	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery	7	2	2	f	D	D	D	D	D	D	D	D
313222	Schiffli machine embroidery	7	2	2	f	D	D	D	D	D	D	D	D
UNION, SC													
31-33	Manufacturing	1	12	7	1 878	50 519	1 596	3 381	38 417	139 593	157 211	298 522	14 015
313	Textile mills	1	7	5	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	2	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	2	2	2	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	2	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	f	D	D	D	D	D	D	D	D
WALHALLA, SC													
31-33	Manufacturing	-	6	4	1 157	25 383	920	1 732	16 540	73 631	40 466	114 043	4 632

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WALTERBORO, SC													
31-33	Manufacturing	-	14	8	951	28 384	755	1 659	20 590	63 454	62 525	130 858	6 547
WELLFORD, SC													
31-33	Manufacturing	-	7	4	662	23 206	522	1 055	14 661	47 979	128 992	173 156	10 033
WEST COLUMBIA, SC													
31-33	Manufacturing	1	53	18	2 652	101 087	1 448	2 796	30 175	278 158	319 195	615 063	16 789
334	Computer & electronic product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	1	1	g	D	D	D	D	D	D	D	D
WESTMINSTER, SC													
31-33	Manufacturing	2	13	9	1 199	34 348	1 016	1 966	26 117	156 405	74 413	249 725	9 610
WILLIAMSTON, SC													
31-33	Manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
313	Textile mills	-	2	2	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	1	1	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills	-	1	1	f	D	D	D	D	D	D	D	D
WILLISTON, SC													
31-33	Manufacturing	-	7	6	1 731	41 517	1 433	3 190	27 766	114 356	168 064	285 705	D
333	Machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg	-	1	1	g	D	D	D	D	D	D	D	D
WINNSBORO, SC													
31-33	Manufacturing	-	7	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	1	1	f	D	D	D	D	D	D	D	D
YORK, SC													
31-33	Manufacturing	-	22	10	1 492	40 629	1 241	2 323	28 961	85 756	123 995	211 338	8 263
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

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
SOUTH CAROLINA		SOUTH CAROLINA—Con.	
Companies ¹ number..	3 945	Quantity of electricity purchased for heat and power 1,000 kWh..	29 131 524
		Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	2 925 400
All establishments number..	4 450	Total value of shipments \$1,000..	70 797 020
Establishments with 1 to 19 employees number..	2 577	Value of resales \$1,000..	2 412 013
Establishments with 20 to 99 employees number..	1 072	Value added \$1,000..	33 657 787
Establishments with 100 employees or more number..	801	Total inventories, beginning of year \$1,000..	7 655 130
All employees number..	346 142	Finished goods inventories, beginning of year \$1,000..	2 854 721
Total compensation ² \$1,000..	12 928 802	Work-in-process inventories, beginning of year \$1,000..	2 006 276
Annual payroll \$1,000..	10 369 419	Materials and supplies inventories, beginning of year \$1,000..	2 794 133
Total fringe benefits \$1,000..	2 559 383	Total inventories, end of year \$1,000..	7 913 837
Production workers, average for year number..	267 548	Finished goods inventories, end of year \$1,000..	3 005 938
Production workers on March 12 number..	267 067	Work-in-process inventories, end of year \$1,000..	1 947 227
Production workers on May 12 number..	267 740	Materials and supplies inventories, end of year \$1,000..	2 960 672
Production workers on August 12 number..	267 564	Gross book value of total assets at beginning of year \$1,000..	36 603 295
Production workers on November 12 number..	267 821	Total capital expenditures (new and used) \$1,000..	3 414 769
Production-worker hours 1,000..	786 083	Capital expenditures for buildings and other structures (new and used) \$1,000..	379 208
Production-worker wages \$1,000..	6 856 005	Capital expenditures for machinery and equipment (new and used) \$1,000..	3 035 561
Total cost of materials \$1,000..	37 229 455	Total retirements ² \$1,000..	990 398
Cost of materials, parts, containers, etc., consumed \$1,000..	33 041 124	Gross book value of total assets at end of year \$1,000..	39 027 666
Cost of resales \$1,000..	1 907 726	Total depreciation during year ² \$1,000..	2 467 113
Cost of fuels \$1,000..	534 013	Total rental payments ² \$1,000..	357 615
Cost of purchased electricity \$1,000..	1 138 759	Buildings and other structures rental payments ² \$1,000..	136 581
Cost of contract work \$1,000..	607 833	Machinery and equipment rental payments ² \$1,000..	221 034

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, calendering, mercerizing, and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock.

313311 Broadwoven Fabric Finishing Mills

This U.S. industry comprises (1) establishments primarily engaged in finishing broadwoven fabrics 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, calendering, mercerizing and napping.

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

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

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

3133111 Broadwoven Fabric Finishing Mills – Manufacturer

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

3133112 Broadwoven Fabric Finishing Mills – Converter

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

3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

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

313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

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

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

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

2269 Finishing plants, n.e.c.

2282 Yarn throwing and winding mills (pt)

2284 Thread mills (pt)

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

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

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

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

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

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

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

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

31332 Fabric Coating Mills

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

313320 Fabric Coating Mills

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

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

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

314 Textile Product Mills

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

3141 Textile Furnishings Mills

This NAICS industry group includes establishments classified in the following NAICS Industries: 31411, Carpet and Rug Mills; and 31412, Curtain and Linen Mills.

31411 Carpet and Rug Mills

This industry comprises establishments primarily engaged in (1) manufacturing woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needlepunch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, sisal, jute, or rags and/or (2) finishing carpets and rugs.

314110 Carpet and Rug Mills

This U.S. industry comprises establishments primarily engaged in (1) manufacturing woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needlepunch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, sisal, jute, or rags and/or (2) finishing carpets and rugs.

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

2273 Carpets and rugs

31412 Curtain and Linen Mills

This industry comprises establishments primarily engaged in manufacturing household textile products, such as curtains, draperies, linens, bedspreads, sheets, tablecloths, towels, and shower curtains, from purchased materials.

314121 Curtain and Drapery Mills

This U.S. industry comprises establishments primarily engaged in manufacturing window curtains and draperies from purchased fabrics or sheet goods. The curtains and draperies may be made on a stock or custom basis for sale to individual retail customers.

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

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

314129 Other Household Textile Product Mills

This U.S. industry comprises establishments primarily engaged in manufacturing household textile products (except window curtains and draperies), such as bedspreads, sheets, tablecloths, towels, and shower curtains, from purchased materials.

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

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

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

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

3149 Other Textile Product Mills

This industry group comprises establishments primarily engaged in making textile products, (except carpets and rugs, curtains and draperies, and other household textile products) from purchased materials.

31491 Textile Bag and Canvas Mills

This industry comprises establishments primarily engaged in manufacturing textile bags, awnings, tents, and related products from purchased textile fabrics.

314911 Textile Bag Mills

This U.S. industry comprises establishments primarily engaged in manufacturing bags from purchased textile fabrics or yarns.

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

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

2393 Textile bags

314912 Canvas and Related Product Mills

This U.S. industry comprises establishments primarily engaged in manufacturing canvas and canvas-like products, such as awnings, sails, tarpaulins, and tents, from purchased fabrics.

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

2394 Canvas and related products

31499 All Other Textile Product Mills

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

314991 Rope, Cordage, and Twine Mills

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

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

2298 Cordage and twine

314992 Tire Cord and Tire Fabric Mills

This U.S. industry comprises establishments primarily engaged in manufacturing cord and fabric of polyester, rayon, cotton, glass, steel, or other materials for use in reinforcing rubber tires, industrial belting, and similar uses.

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

2296 Tire cord and fabric

314999 All Other Miscellaneous Textile Product Mills

This U.S. industry comprises establishments primarily engaged in manufacturing textile products (except carpets and rugs; curtains and linens; textile bags and canvas products; rope, cordage, and twine; and tire cord and tire fabrics) from purchased materials.

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

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

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

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

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

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

315 Apparel Manufacturing

Industries in the Apparel Manufacturing subsector group establishments with two distinct manufacturing processes: (1) cut and sew (i.e., purchasing fabric and cutting and sewing to make a garment) and (2) the manufacture of garments in establishments that first knit fabric and then cut and sew the fabric into a garment. The Apparel Manufacturing subsector includes a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients are all included. Knitting, when done alone, is classified in the

Textile Mills subsector, but when knitting is combined with the production of complete garments, the activity is classified in Apparel Manufacturing.

3151 Apparel Knitting Mills

This industry group comprises establishments primarily engaged in knitting apparel or knitting fabric and then manufacturing apparel. This industry group includes jobbers performing entrepreneurial functions involved in knitting apparel and accessories. Knitting fabric, without manufacturing apparel, is classified in Subsector 313, Textile Mills.

31511 Hosiery and Sock Mills

This industry comprises establishments primarily engaged in knitting or knitting and finishing hosiery and socks.

315111 Sheer Hosiery Mills

This U.S. industry comprises establishments primarily engaged in knitting or knitting and finishing women's, misses', and girls' full-length and knee-length sheer hosiery (except socks).

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

2251 Women's hosiery, except socks

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

315119 Other Hosiery and Sock Mills

This U.S. industry comprises establishments primarily engaged in knitting or knitting and finishing hosiery (except women's, misses', and girls' sheer hosiery).

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

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

31519 Other Apparel Knitting Mills

This industry comprises establishments primarily engaged in one of the following: (1) knitting underwear, outerwear, and/or nightwear; (2) knitting fabric and manufacturing underwear, outerwear, and/or nightwear; or (3) knitting, manufacturing, and finishing knit underwear, outerwear, and/or nightwear.

315191 Outerwear Knitting Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) knitting outerwear; (2) knitting fabric and manufacturing outerwear; and (3) knitting, manufacturing, and finishing knit outerwear. Examples of products made in knit outerwear mills are shirts, shorts, sweat suits, sweaters, gloves, and pants.

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

2253 Knit outerwear mills

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

3151911 Outerwear Knitting Mills – Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

3151912 Outerwear Knitting Mills – Jobber

Establishments engaged as knit outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

3151913 Outerwear Knitting Mills – Contractor

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

315192 Underwear and Nightwear Knitting Mills

This U.S. industry comprises establishments primarily engaged in one of the following: (1) knitting underwear and nightwear; (2) knitting fabric and manufacturing underwear and nightwear; or (3) knitting, manufacturing, and finishing knit underwear and nightwear. Examples of products produced in underwear and nightwear knitting mills are briefs, underwear T-shirts, pajamas, nightshirts, foundation garments, and panties.

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

2254 Knit underwear mills

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

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

3152 Cut and Sew Apparel Manufacturing

This industry group comprises establishments primarily engaged in manufacturing cut and sew apparel from woven fabric or purchased knit fabric. Included in this industry group is a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel

manufacture; and tailors, manufacturing custom garments for individual clients. Establishments weaving or knitting fabric, without manufacturing apparel, are classified in Subsector 313, Textile Mills.

31521 Cut and Sew Apparel Contractors

This industry comprises establishments commonly referred to as contractors primarily engaged in (1) cutting materials owned by others for apparel and accessories and/or (2) sewing materials owned by others for apparel and accessories.

315211 Men’s and Boys’ Cut and Sew Apparel Contractors

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in (1) cutting materials owned by others for men’s and boys’ apparel and/or (2) sewing materials owned by others for men’s and boys’ apparel.

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

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

2321 Shirts, men’s and boys’ (pt)

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

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

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

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

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

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

2395 Pleating and stitching (pt)

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

315212 Women’s, Girls’, and Infants’ Cut and Sew Apparel Contractors

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in (1) cutting materials owned by others for women’s, girls’, and infants’ apparel and accessories and/or (2) sewing materials owned by others for women’s, girls’, and infants’ apparel and accessories.

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

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

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

31522 Men's and Boys' Cut and Sew Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew apparel from purchased fabric. Men's and boys' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315221 Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' underwear and nightwear from purchased fabric. Men's and boys' underwear and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are briefs, bathrobes, underwear T-shirts and shorts, nightshirts, and pajamas.

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

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

315222 Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' suits, overcoats, sport coats, tuxedos, dress uniforms, and other tailored apparel (except fur and leather) from purchased fabric. Men's and boys' suit, coat, and overcoat jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

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

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

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

Establishments primarily engaged in manufacturing men's and boys' suits, overcoats, sport coats, tuxedos, dress uniforms, and other tailored apparel (except fur and leather) from purchased fabric.

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

Establishments engaged as men's and boys' suit, coat, and overcoat jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315223 Men's and Boys' Cut and Sew Shirt (Except Work Shirt) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric. Men's and boys' shirt (except

work shirt) jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex outerwear shirts, such as T-shirts and sweatshirts that are sized without specific reference to gender (i.e., adult S, M, L, XL) are included in this industry.

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

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

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

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

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

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

Establishments engaged as men's and boys' shirt (except work shirt) jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315224 Men's and Boys' Cut and Sew Trouser, Slack, and Jean Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' jeans, dungarees, and other separate trousers and slacks (except work pants) from purchased fabric. Men's and boys' trouser, slack, and jean jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

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

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

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

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

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

Establishments engaged as men's and boys' trouser, slack, and jean jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315225 Men's and Boys' Cut and Sew Work Clothing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' work shirts, work pants (excluding jeans and dungarees), other work clothing, and washable service apparel from purchased fabric. Men's and boys' work clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are washable service apparel, laboratory coats, work shirts, work pants (except jeans and dungarees), and hospital apparel.

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

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

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

Establishments primarily engaged in manufacturing men's and boys' work shirts, work pants (excluding jeans and dungarees), other work clothing, and washable service apparel from purchased fabric.

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

Establishments engaged as men's and boys' work clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315228 Men's and Boys' Cut and Sew Other Outerwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and work clothing). Men's and boys' other outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples,

arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex sweat-pants and similar garments that are sized without specific reference to gender (i.e., adult S, M, L, XL) are also included in this industry. Examples of products made by these establishments are athletic clothing (except athletic uniforms), bathing suits, down coats, outerwear shorts, windbreakers and jackets, and jogging suits.

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

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

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

2385 Waterproof outer garments (pt)

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

Establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and working clothing).

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

Establishments engaged as men's and boys' other outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

31523 Women's and Girls' Cut and Sew Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing women's and girls' apparel from purchased fabric. Women's and girls' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

315231 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric. Women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their

materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathrobes, foundation garments, nightgowns, pajamas, panties, and slips.

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

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

2342 Brassieres and allied garments (pt)

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

2384 Robes and dressing gowns (pt)

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

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

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

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

Establishments engaged as women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315232 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' blouses and shirts from purchased fabric. Women's and girls' blouse and shirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

2331 Women's blouses and waists (pt)

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

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

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

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

Establishments engaged as women's and girls' blouse and shirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315233 Women's and Girls' Cut and Sew Dress Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' dresses from purchased fabric. Women's and girls' dress jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

2335 Women's dresses (pt)

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

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

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

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

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

Establishments engaged as women's and girls' dress jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315234 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric. Women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial

functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

2337 Women's suits and coats (pt)

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

2385 Waterproof outer garments (pt)

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

Establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric.

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

Establishments engaged as women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315239 Women's and Girls' Cut and Sew Other Outerwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' cut and sew apparel from purchased fabric (except underwear, lingerie, nightwear, blouses, shirts, dresses, suits, tailored coats, tailored jackets, and skirts). Women's and girls' other outerwear clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathing suits, down coats, sweaters, jogging suits, outerwear pants and shorts, and windbreakers.

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

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

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

2385 Waterproof outer garments (pt)

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

Establishments primarily engaged in manufacturing women's and girls' cut and sew apparel from purchased fabric (except underwear, lingerie, nightwear, blouses, shirts, dresses, suits, tailored coats, tailored jackets, and skirts).

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

Establishments engaged as women's and girls' other outerwear clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

31529 Other Cut and Sew Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except men's, boys', women's, and girls' apparel). This industry includes establishments manufacturing apparel, such as fur apparel, leather apparel, infants' apparel, costumes, and clerical vestments.

315291 Infants' Cut and Sew Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing infants' dresses, blouses, shirts, and all other infants' wear from purchased fabric. Infants' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

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

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

3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

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

3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

Establishments engaged as infants' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

315292 Fur and Leather Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew fur and leather apparel, and sheep-lined clothing. Fur and leather apparel jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

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

315299 All Other Cut and Sew Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants' apparel; and fur and leather apparel). Clothing jobbers for these products, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

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

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

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

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

3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants' apparel; and fur and leather apparel). Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

Establishments engaged as clothing jobbers (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants' apparel; and fur and leather apparel), who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel. Examples of these products are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

3159 Apparel Accessories and Other Apparel Manufacturing

This industry group comprises establishments primarily engaged in manufacturing apparel accessories and other apparel (except apparel knitting mills, apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, infants' cut and sew apparel, fur and leather apparel, and all other cut and sew apparel). This industry group includes jobbers performing entrepreneurial functions involved in manufacturing apparel accessories.

31599 Apparel Accessories and Other Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing apparel and accessories (except apparel knitting mills, cut and sew apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, and other cut and sew apparel). Jobbers, who perform entrepreneurial functions involved in apparel accessories manufacture, including buying raw materials, designing and preparing samples, arranging for

apparel accessories to be made from their materials, and marketing finished apparel accessories, are included. Examples of products made by these establishments are belts, caps, gloves (except medical, sporting, safety), hats, and neckties.

315991 Hat, Cap, and Millinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew hats, caps, millinery, and hat bodies from purchased fabric. Jobbers, who perform entrepreneurial functions involved in hat, cap, and millinery manufacture, including buying raw materials, designing and preparing samples, arranging for hats, caps, and millinery to be made from their materials, and marketing finished hats, caps, and millinery, are included.

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

2353 Hats, caps, and millinery

315992 Glove and Mitten Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew gloves (except rubber, metal, and athletic gloves) and mittens from purchased fabric, fur, leather, or from combinations of fabric, fur, or leather. Jobbers, who perform entrepreneurial functions involved in glove and mitten manufacture, including buying raw materials, designing and preparing samples, arranging for gloves and mittens to be made from their materials, and marketing finished gloves and mittens, are included.

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

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

315993 Men's and Boys' Neckwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew neckties, scarves, and mufflers from purchased fabric, leather, or from combinations of leather and fabric. Men's and boys' neckwear jobbers, who perform entrepreneurial functions involved in neckwear manufacture, including buying raw materials, designing and preparing samples, arranging for neckwear to be made from their materials, and marketing finished neckwear, are included.

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

2323 Men's and boys' neckwear

315999 Other Apparel Accessories and Other Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing apparel and apparel accessories (except apparel knitting mills; cut and sew apparel contractors; cut and sew apparel; hats and caps; mittens and

gloves; and men's and boys' neckwear). Jobbers for these products, who perform entrepreneurial functions involved in other apparel and accessory manufacture, including buying raw materials, designing and preparing samples, arranging for other apparel and accessories to be made from their materials, and marketing finished other apparel and accessories, are included. Examples of products made by these establishments are apparel trimmings and findings, belts, women's scarves, suspenders, and waterproof outerwear.

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

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

2385 Waterproof outer garments (pt)

2387 Apparel belts

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

2396 Automotive and apparel trimmings (pt)

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

5699 Miscellaneous apparel and accessory stores (pt)

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

316 Leather and Allied Product Manufacturing

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

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

3161 Leather and Hide Tanning and Finishing

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

31611 Leather and Hide Tanning and Finishing

This industry comprises establishments primarily engaged in one or more of the following: (1) tanning, currying, and finishing hides and skins; (2) having others process hides and skins on a contract basis; and (3) dyeing or dressing furs.

316110 Leather and Hide Tanning and Finishing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) tanning, currying, and finishing hides and skins; (2) having others process hides and skins on a contract basis; and (3) dyeing or dressing furs.

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

3111 Leather tanning and finishing

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

3162 Footwear Manufacturing

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

31621 Footwear Manufacturing

This industry comprises establishments primarily engaged in manufacturing footwear (except orthopedic extension footwear).

316211 Rubber and Plastics Footwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber and plastics footwear with vulcanized rubber or plastics soles, molded or cemented to rubber, plastics, or fabric uppers, and rubber and plastics protective footwear.

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

Rubber and plastics footwear

316212 House Slipper Manufacturing

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

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

3142 House slippers

316213 Men's Footwear (Except Athletic) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's footwear designed primarily for dress, street, and work. This industry includes men's shoes with rubber or plastics soles and leather or vinyl uppers.

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

3143 Men's footwear, except athletic

316214 Women's Footwear (Except Athletic) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's footwear designed for dress, street, and work. This industry includes women's shoes with rubber or plastics soles and leather or vinyl uppers.

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

3144 Women's footwear, except athletic

316219 Other Footwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing other footwear (except rubber and plastics footwear; house slippers; men's footwear (except athletic); and women's footwear (except athletic)).

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

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

3169 Other Leather and Allied Product Manufacturing

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

31699 Other Leather and Allied Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing leather products (except footwear and apparel) from purchased leather or leather substitutes (e.g., fabric, plastics).

316991 Luggage Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing luggage of any material.

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

3161 Luggage

316992 Women's Handbag and Purse Manufacturing

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

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

3171 Women's handbags and purses

316993 Personal Leather Goods (Except Women's Handbag and Purse) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing personal leather goods (i.e., small articles of any material (except metal) normally carried on or about the person or in a handbag). Examples of personal leather goods made by these establishments are billfolds, coin purses, key cases, toilet kits, and watchbands (except metal).

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

3172 Personal leather goods, n.e.c.

316999 All Other Leather Goods Manufacturing

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

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

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

321 Wood Product Manufacturing

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

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

3211 Sawmills and Wood Preservation

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

32111 Sawmills and Wood Preservation

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

321113 Sawmills

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

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

2421 Sawmills and planing mills, general (pt)

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

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

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

321114 Wood Preservation

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

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

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

2491 Wood preserving

3212 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

32121 Veneer, Plywood, and Engineered Wood Product Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing veneer and/or plywood; (2) manufacturing engineered wood members; and (3) manufacturing reconstituted wood products. This industry includes manufacturing plywood from veneer made in the same establishment or from veneer made in other establishments, and manufacturing plywood faced with nonwood materials, such as plastics or metal.

321211 Hardwood Veneer and Plywood Manufacturing

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

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

2435 Hardwood veneer and plywood

321212 Softwood Veneer and Plywood Manufacturing

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

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

2436 Softwood veneer and plywood

321213 Engineered Wood Member (Except Truss) Manufacturing

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

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

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

321214 Truss Manufacturing

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

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

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

321219 Reconstituted Wood Product Manufacturing

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

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

2493 Reconstituted wood products

3219 Other Wood Product Manufacturing

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

32191 Millwork

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

321911 Wood Window and Door Manufacturing

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

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

2431 Millwork (pt)

321912 Cut Stock, Resawing Lumber, and Planing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing dimension lumber from purchased lumber; (2) manufacturing dimension stock (i.e., shapes) or cut stock; (3) resawing the output of sawmills; and (4) planing purchased lumber. These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

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

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

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

321918 Other Millwork (Including Flooring)

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

32192 Wood Container and Pallet Manufacturing

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

321920 Wood Container and Pallet Manufacturing

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

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

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

2441 Nailed wood boxes & shoo

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

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

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

32199 All Other Wood Product Manufacturing

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

321991 Manufactured Home (Mobile Home) Manufacturing

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

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

2451 Mobile homes

321992 Prefabricated Wood Building Manufacturing

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

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

2452 Prefabricated wood buildings

321999 All Other Miscellaneous Wood Product Manufacturing

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

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

2421 Sawmills and planing mills, general (pt)

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

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

3131 Footwear cut stock and findings (pt)

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

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

322 Paper Manufacturing

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

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

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

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

The same situation holds with respect to bags. The manufacturing of bags from plastics only, whether or not laminated, is classified in Subsector 326, Plastics and Rubber Products Manufacturing, but all other bag manufacturing is classified in this subsector.

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

3221 Pulp, Paper, and Paperboard Mills

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

32211 Pulp Mills

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

322110 Pulp Mills

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

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

2611 Pulp mills

32212 Paper Mills

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

322121 Paper (Except Newsprint) Mills

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

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

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

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

3221211 Paper (Except Newsprint) Mills – Integrated Producer

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

3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

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

322122 Newsprint Mills

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

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

2621 Paper mills (pt)

3221221 Newsprint Mills – Integrated Producer

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

3221222 Newsprint Mills – Nonintegrated Producer

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

32213 Paperboard Mills

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

322130 Paperboard Mills

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

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

2631 Paperboard mills

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

3221301 Paperboard Mills – Integrated Producer

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

3221302 Paperboard Mills – Nonintegrated Producer

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

3222 Converted Paper Product Manufacturing

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

32221 Paperboard Container Manufacturing

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

322211 Corrugated and Solid Fiber Box Manufacturing

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

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

2653 Corrugated and solid fiber boxes

322212 Folding Paperboard Box Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard (except corrugated) into folding paperboard boxes without manufacturing paper and paperboard.

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

2657 Folding paperboard boxes

322213 Setup Paperboard Box Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard into setup paperboard boxes (i.e., rigid-sided boxes not shipped flat) without manufacturing paperboard.

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

2652 Setup paperboard boxes

322214 Fiber Can, Tube, Drum, and Similar Products Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard into fiber cans, tubes, drums, and similar products without manufacturing paperboard.

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

2655 Fiber cans, drums, and similar products

322215 Nonfolding Sanitary Food Container Manufacturing

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

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

2656 Sanitary food containers

32222 Paper Bag and Coated and Treated Paper Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) cutting and coating paper and paperboard; (2) cutting and laminating paper and paperboard and other flexible materials (except plastics film to plastics film); (3) manufacturing bags or multiwall bags or sacks of paper, metal foil, coated paper, or laminates or coated combinations of paper and foil with plastics film; (4) manufacturing laminated aluminum and other converted metal foils from purchased foils; and (5) surface coating paper or paperboard.

322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with the manufacturing of packaging materials: (1) cutting and coating paper; and (2) cutting and laminating paper with other flexible materials (except plastics to plastics or foil to paper laminates). The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

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

2671 Paper - coated and laminated, packaging (pt)

322222 Coated and Laminated Paper Manufacturing

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

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

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

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

322223 Plastics, Foil, and Coated Paper Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bags of coated paper, of metal foil, or of laminated or coated combinations of plastics, foil, and paper, whether or not printed.

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

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

322224 Uncoated Paper and Multiwall Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing uncoated paper bags or multiwall bags and sacks.

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

2674 Bags - uncoated paper and multiwall

322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

This U.S. industry comprises establishments primarily engaged in laminating aluminum and other metal foil into products with flexible packaging uses or gift wrap and other packaging wrap applications.

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

3497 Metal foil and leaf (pt)

322226 Surface-Coated Paperboard Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating, lining, or surface coating purchased paperboard to make other paperboard products.

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

2675 Die-cut paper and board (pt)

32223 Stationery Product Manufacturing

This industry comprises establishments primarily engaged in converting paper or paperboard into products used for writing, filing, art work, and similar applications.

322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper rollstock or paperboard into die-cut paper or paperboard office supplies. For the purpose of this industry, office supplies are defined as office products, such as filing folders, index cards, rolls for adding machines, file separators and dividers, tabulating cards, and other paper and paperboard office supplies.

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

2675 Die-cut paper and board (pt)

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

322232 Envelope Manufacturing

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

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

2677 Envelopes

322233 Stationery, Tablet, and Related Product Manufacturing

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

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

2678 Stationery products

32229 Other Converted Paper Product Manufacturing

This industry comprises establishments primarily engaged in (1) converting paper and paperboard into products (except containers, bags, coated and treated paper and paperboard, and stationery products), or (2) converting pulp into pulp products, such as disposable diapers, or molded pulp egg cartons, food trays, and dishes. Processes used include laminating or lining purchased paper or paperboard.

322291 Sanitary Paper Product Manufacturing

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

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

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

322299 All Other Converted Paper Product Manufacturing

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

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

2675 Die-cut paper and board (pt)

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

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

323 Printing and Related Support Activities

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

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

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

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

3231 Printing and Related Support Activities

This NAICS industry group includes establishments classified in the following NAICS Industries: 32311, Printing; and 32312, Support Activities for Printing.

32311 Printing

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

323110 Commercial Lithographic Printing

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

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

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

323111 Commercial Gravure Printing

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

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

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

323112 Commercial Flexographic Printing

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

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

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

323113 Commercial Screen Printing

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

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

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

323114 Quick Printing

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

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

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

323115 Digital Printing

This U.S. industry comprises establishments primarily engaged in printing graphical materials using digital printing equipment. Establishments known as digital printers typically provide sophisticated prepress services including using scanners to input images and computers to manipulate and format the graphic images prior to printing.

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

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

323116 Manifold Business Form Printing

This U.S. industry comprises establishments primarily engaged in printing special forms, including checkbooks, for use in the operation of a business. The forms may be in single and multiple sets, including carbonized, interleaved with carbon, or otherwise processed for multiple reproduction.

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

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

323117 Book Printing

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

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

- 2732 Book printing

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and binders. Establishments in this industry may print or print and bind.

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

2782 Blankbooks and looseleaf binders (pt)

323119 Other Commercial Printing

This U.S. industry comprises establishments primarily engaged in commercial printing (except lithographic, gravure, screen, or flexographic printing) without publishing (except books, grey goods, and manifold business forms). Printing processes included in this industry are letterpress printing and engraving printing. This industry includes establishments engaged in commercial printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

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

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

2771 Greeting cards (pt)

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

32312 Support Activities for Printing

This industry comprises establishments primarily engaged in performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

323121 Tradebinding and Related Work

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) tradebinding; (2) sample mounting; and (3) postpress services (e.g., book or paper bronzing, die-cutting, edging, embossing, folding, gilding, gluing, indexing).

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

2789 Bookbinding and related work

323122 Prepress Services

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

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

2791 Typesetting

2796 Platemaking services

324 Petroleum and Coal Products Manufacturing

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is

petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

In addition, this subsector includes establishments that primarily further process refined petroleum and coal products and produce products, such as asphalt coatings and petroleum lubricating oils. However, establishments that manufacture petrochemicals from refined petroleum are classified in Industry 32511, Petrochemical Manufacturing.

3241 Petroleum and Coal Products Manufacturing

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

32411 Petroleum Refineries

This industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

324110 Petroleum Refineries

This U.S. industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

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

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

324121 Asphalt Paving Mixture and Block Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures and blocks from purchased asphaltic materials.

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

2951 Asphalt paving mixtures and blocks

324122 Asphalt Shingle and Coating Materials Manufacturing

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

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

2952 Asphalt felts and coatings

32419 Other Petroleum and Coal Products Manufacturing

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

324191 Petroleum Lubricating Oil and Grease Manufacturing

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

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

2992 Lubricating oils and greases

324199 All Other Petroleum and Coal Products Manufacturing

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

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

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

3312 Blast furnaces and steel mills (pt)

325 Chemical Manufacturing

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

This subsector does not include all industries transforming raw materials by a chemical process. It is common for some chemical processing to occur during mining operations. These beneficiating operations, such as copper concentrating, are classified in Sector 21, Mining. Furthermore, the refining of crude petroleum is included in Subsector 324, Petroleum and Coal Products Manufacturing. In addition, the manufacturing of aluminum oxide is included in Subsector 331, Primary Metal Manufacturing; and beverage distilleries are classified in Subsector 312, Beverage and Tobacco Product Manufacturing. As in the case of these two activities, the grouping of industries into subsectors may take into account the association of the activities performed with other activities in the subsector.

3251 Basic Chemical Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemicals using basic processes, such as thermal cracking and distillation. Chemicals manufactured in this industry group are usually separate chemical elements or separate chemically-defined compounds.

32511 Petrochemical Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325110 Petrochemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

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

2865 Cyclic crudes and intermediates (pt)

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

32512 Industrial Gas Manufacturing

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

325120 Industrial Gas Manufacturing

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

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

2813 Industrial gases

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

32513 Synthetic Dye and Pigment Manufacturing

This industry comprises establishments primarily engaged in manufacturing synthetic organic and inorganic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

325131 Inorganic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing inorganic dyes and pigments.

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

2816 Inorganic pigments (pt)

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

325132 Synthetic Organic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic organic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

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

2865 Cyclic crudes and intermediates (pt)

32518 Other Basic Inorganic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases and synthetic dyes and pigments).

325181 Alkalies and Chlorine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chlorine, sodium hydroxide (i.e., caustic soda), and other alkalies often using an electrolysis process.

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

2812 Alkalies and chlorine

325182 Carbon Black Manufacturing

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

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

2816 Inorganic pigments (pt)

2895 Carbon black

325188 All Other Basic Inorganic Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases, inorganic dyes and pigments, alkalies and chlorine, and carbon black).

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

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

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

32519 Other Basic Organic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic organic chemicals (except petrochemicals, industrial gases, and synthetic dyes and pigments).

325191 Gum and Wood Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) distilling wood or gum into products, such as tall oil and wood distillates, and (2) manufacturing wood or gum chemicals, such as naval stores, natural tanning materials, charcoal briquettes, and charcoal (except activated).

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

2861 Gum and wood chemicals

325192 Cyclic Crude and Intermediate Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) distilling coal tars and/or (2) manufacturing cyclic crudes or cyclic intermediates (i.e., hydrocarbons, except aromatic petrochemicals) from refined petroleum or natural gas.

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

2865 Cyclic crudes and intermediates (pt)

325193 Ethyl Alcohol Manufacturing

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

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

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

325199 All Other Basic Organic Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing basic organic chemical products (except aromatic petrochemicals, industrial gases, synthetic organic dyes and pigments, gum and wood chemicals, cyclic crudes and intermediates, and ethyl alcohol).

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

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

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

3252 Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing

32521 Resin and Synthetic Rubber Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers and mixing and blending resins on a custom basis; (2) manufacturing noncustomized synthetic resins; and (3) manufacturing synthetic rubber.

325211 Plastics Material and Resin Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or (2) manufacturing noncustomized synthetic resins.

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

2821 Plastics materials and resins

325212 Synthetic Rubber Manufacturing

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

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

2822 Synthetic rubber

32522 Artificial and Synthetic Fibers and Filaments Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) and noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic and noncellulosic fibers and filaments.

325221 Cellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic fibers and filaments.

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

2823 Cellulosic manmade fibers

325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry consists of establishments primarily engaged in (1) manufacturing noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing noncellulosic fibers and filaments.

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

2824 Organic fibers, noncellulosic

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

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

32531 Fertilizer Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous or phosphatic fertilizer materials; (2) manufacturing fertilizers from sewage or animal waste; (3) manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and (4) mixing ingredients made elsewhere into fertilizers.

325311 Nitrogenous Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous fertilizer materials and mixing ingredients

into fertilizers; (2) manufacturing fertilizers from sewage or animal waste; and (3) manufacturing nitrogenous materials and mixing them into fertilizers.

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

2873 Nitrogenous fertilizers

325312 Phosphatic Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing phosphatic fertilizer materials or (2) manufacturing phosphatic materials and mixing them into fertilizers.

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

2874 Phosphatic fertilizers

325314 Fertilizer (Mixing Only) Manufacturing

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

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

2875 Fertilizers, mixing only

32532 Pesticide and Other Agricultural Chemical Manufacturing

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

325320 Pesticide and Other Agricultural Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

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

2879 Agricultural chemicals, n.e.c.

3254 Pharmaceutical and Medicine Manufacturing

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

32541 Pharmaceutical and Medicine Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing biological and medicinal products; (2) processing (i.e., grading, grinding, and milling) botanical drugs and herbs; (3) isolating active medicinal principals from botanical drugs and herbs; and (4) manufacturing pharmaceutical

products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325411 Medicinal and Botanical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or (2) grading, grinding, and milling uncompounded botanicals.

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

2833 Medicinals and botanicals

325412 Pharmaceutical Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vivo diagnostic substances and pharmaceutical preparations (except biological) intended for internal and external consumption in dose forms, such as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

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

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

325413 In-Vitro Diagnostic Substance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vitro (i.e., not taken internally) diagnostic substances, such as chemical, biological, or radioactive substances. The substances are used for diagnostic tests that are performed in test tubes, petri dishes, machines, and other diagnostic test-type devices.

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

2835 Diagnostic substances (pt)

325414 Biological Product (Except Diagnostic) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vaccines, toxoids, blood fractions, and culture media of plant or animal origin (except diagnostic).

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

2836 Biological products, except diagnostic

3255 Paint, Coating, and Adhesive Manufacturing

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

32551 Paint and Coating Manufacturing

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

325510 Paint and Coating Manufacturing

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

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

2851 Paints and allied products

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

32552 Adhesive Manufacturing

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325520 Adhesive Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

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

2891 Adhesives and sealants

3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

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

32561 Soap and Cleaning Compound Manufacturing

This industry comprises establishments primarily engaged in manufacturing and packaging soap and other cleaning compounds, surface active agents, and textile and leather finishing agents used to reduce tension or speed the drying process.

325611 Soap and Other Detergent Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents; dishwashing detergents; toothpaste gels and tooth powders; and natural glycerin.

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

2841 Soap and other detergents

2844 Toilet preparations (pt)

325612 Polish and Other Sanitation Good Manufacturing

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

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

2842 Polishes and sanitation goods

325613 Surface Active Agent Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or (2) manufacturing textiles and leather finishing agents used to reduce tension or speed the drying process.

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

2843 Surface active agents

32562 Toilet Preparation Manufacturing

This industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

325620 Toilet Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

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

2844 Toilet preparations (pt)

3259 Other Chemical Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and

noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

32591 Printing Ink Manufacturing

This industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

325910 Printing Ink Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

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

2893 Printing ink

32592 Explosives Manufacturing

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 Explosives Manufacturing

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

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

2892 Explosives

32599 All Other Chemical Product and Preparation Manufacturing

This industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, and synthetic rubber; cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; and soaps, cleaning compounds, and toilet preparations; printing inks; and explosives).

325991 Custom Compounding of Purchased Resins

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

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

3087 Custom compound purchased resins

325992 Photographic Film, Paper, Plate, and Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sensitized film, sensitized paper, sensitized cloth, sensitized plates, toners (i.e., for photocopiers, laser printers, and similar electrostatic printing devices), toner cartridges, and photographic chemicals.

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

3861 Photographic equipment and supplies (pt)

325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, synthetic rubber; cellulosic and noncellulosic fiber and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soap, cleaning compounds, and toilet preparations; printing inks; explosives; custom compounding of purchased resins; and photographic films, papers, plates, and chemicals).

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

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

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

3952 Lead pencils and art goods (pt)

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

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

326 Plastics and Rubber Products Manufacturing

Industries in the Plastics and Rubber Products Manufacturing subsector make goods by processing plastics materials and raw rubber. The core technology employed by establishments in this subsector is that of plastics or rubber product production. Plastics and rubber are combined in the same subsector because plastics are increasingly being used as a substitute for rubber; however, the subsector is generally restricted to the production of products made of just one material, either solely plastics or rubber.

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products

involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hose and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

3261 Plastics Product Manufacturing

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

32611 Unsupported Plastics Film, Sheet, and Bag Manufacturing

This industry comprises establishments primarily engaged in (1) converting plastics resins into unsupported plastics film and sheet and/or (2) forming, coating, or laminating plastics film and sheet into plastics bags.

326111 Unsupported Plastics Bag Manufacturing

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

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

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

326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

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

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

2671 Paper - coated and laminated, packaging (pt)

326113 Unsupported Plastics Film and Sheet (Except Packaging) Manufacturing

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

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

3081 Unsupported plastics film and sheet

32612 Plastics Pipe, Pipe Fitting, and Unsupported Profile Shape Manufacturing

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

326121 Unsupported Plastics Profile Shapes Manufacturing

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

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

3082 Unsupported plastics profile shapes

326122 Plastics Pipe and Pipe Fitting Manufacturing

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

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

3084 Plastics pipe

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

32613 Laminated Plastics Plate, Sheet, and Shape Manufacturing

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

326130 Laminated Plastics Plate, Sheet, and Shape Manufacturing

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

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

3083 Laminated plastics plate and sheet

32614 Polystyrene Foam Product Manufacturing

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

326140 Polystyrene Foam Product Manufacturing

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

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

3086 Plastics foam products (pt)

32615 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

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

326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

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

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

3086 Plastics foam products (pt)

32616 Plastics Bottle Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 Plastics Bottle Manufacturing

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

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

3085 Plastics bottles

32619 Other Plastics Product Manufacturing

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

326191 Plastics Plumbing Fixture Manufacturing

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

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

3088 Plastics plumbing fixtures

326192 Resilient Floor Covering Manufacturing

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

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

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

3996 Hard surface floor coverings

326199 All Other Plastics Product Manufacturing

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

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

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

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

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

3262 Rubber Product Manufacturing

This industry group comprises establishments primarily engaged in processing natural and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

32621 Tire Manufacturing

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

326211 Tire Manufacturing (Except Retreading)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

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

3011 Tires and inner tubes

326212 Tire Retreading

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

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

7534 Tire retreading and repair shops (pt)

32622 Rubber and Plastics Hoses and Belting Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

326220 Rubber and Plastics Hoses and Belting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

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

3052 Rubber and plastics hose and belting

32629 Other Rubber Product Manufacturing

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

326291 Rubber Product Manufacturing for Mechanical Use

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

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

3061 Mechanical rubber goods

326299 All Other Rubber Product Manufacturing

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

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

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

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

327 Nonmetallic Mineral Product Manufacturing

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications.

The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further

process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

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

3271 Clay Product and Refractory Manufacturing

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

32711 Pottery, Ceramics, and Plumbing Fixture Manufacturing

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

327111 Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing

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

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

3261 Vitreous plumbing fixtures

327112 Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing

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

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

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

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

327113 Porcelain Electrical Supply Manufacturing

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

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

3264 Porcelain electrical supplies

32712 Clay Building Material and Refractories Manufacturing

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

327121 Brick and Structural Clay Tile Manufacturing

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

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

3251 Brick and structural clay tile

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

327122 Ceramic Wall and Floor Tile Manufacturing

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

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

3253 Ceramic wall and floor tile

327123 Other Structural Clay Product Manufacturing

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

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

3259 Structural clay products, n.e.c.

327124 Clay Refractory Manufacturing

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

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

3255 Clay refractories

327125 Nonclay Refractory Manufacturing

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

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

3297 Nonclay refractories

3272 Glass and Glass Product Manufacturing

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

32721 Glass and Glass Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

327211 Flat Glass Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing flat glass by melting silica sand or cullet or (2) manufacturing both flat glass and laminated glass by melting silica sand or cullet.

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

3211 Flat glass

327212 Other Pressed and Blown Glass and Glassware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers).

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

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

327213 Glass Container Manufacturing

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

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

3221 Glass containers

327215 Glass Product Manufacturing Made of Purchased Glass

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

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

3231 Products of purchased glass

3273 Cement and Concrete Product Manufacturing

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

32731 Cement Manufacturing

This industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

327310 Cement Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

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

3241 Cement, hydraulic

32732 Ready-Mix Concrete Manufacturing

This industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

327320 Ready-Mix Concrete Manufacturing

This U.S. industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

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

3273 Ready-mixed concrete

32733 Concrete Pipe, Brick, and Block Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block

327331 Concrete Block and Brick Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

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

3271 Concrete brick and block

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

327332 Concrete Pipe Manufacturing

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

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

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

32739 Other Concrete Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 Other Concrete Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

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

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

3274 Lime and Gypsum Product Manufacturing

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

32741 Lime Manufacturing

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327410 Lime Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

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

3274 Lime

32742 Gypsum Product Manufacturing

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

327420 Gypsum Product Manufacturing

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

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

3275 Gypsum products

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

3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 Abrasive Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products

327910 Abrasive Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

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

3291 Abrasive products (pt)

32799 All Other Nonmetallic Mineral Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

327991 Cut Stone and Stone Product Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

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

3281 Cut stone and stone products

327992 Ground or Treated Mineral and Earth Manufacturing

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

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

3295 Minerals, ground or treated

327993 Mineral Wool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

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

3296 Mineral wool

327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

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

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

3292 Asbestos products (pt)

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

331 Primary Metal Manufacturing

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill, industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 Iron and Steel Mills and Ferroalloy Manufacturing

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

33111 Iron and Steel Mills and Ferroalloy Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) manufacturing ferroalloys; (5) making steel; (6) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (7) making steel and forming pipe and tube.

331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) making steel; (5) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (6) making steel and forming tube and pipe.

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

3312 Blast furnaces and steel mills (pt)

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

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

3311111 Iron and Steel Mills – Fully Integrated

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

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

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

SOUTH CAROLINA

Andrews is in Georgetown and Williamsburg Counties.

Batesburg-Leesville is in Lexington and Saluda Counties; resulted from the merger of Batesburg (reported in the 1992 Economic Census) and Leesville (not populous enough for separate tabulation in the 1992 Economic Census) in January 1993.

Charleston is in Berkeley and Charleston Counties.

Clemson is in Anderson and Pickens Counties.

Columbia is in Lexington and Richland Counties.

Fountain Inn is in Greenville and Laurens Counties.

Goose Creek is in Berkeley and Charleston Counties.

Greer is in Greenville and Spartanburg Counties.

Honea Path is in Abbeville and Anderson Counties.

Irmo is in Lexington and Richland Counties.

North Augusta is in Aiken and Edgefield Counties.

North Charleston is in Berkeley, Charleston, and Dorchester Counties.

Summerville is in Berkeley, Charleston, and Dorchester Counties.

Appendix E. Metropolitan Areas

SOUTH CAROLINA

Augusta—Aiken, GA—SC MSA

Columbia County, GA
McDuffie County, GA
Richmond County, GA
Aiken County, SC
Edgefield County, SC

Charleston—North Charleston, SC MSA

Berkeley County, SC
Charleston County, SC
Dorchester County, SC

Charlotte—Gastonia—Rock Hill, NC—SC MSA

Cabarrus County, NC
Gaston County, NC
Lincoln County, NC
Mecklenburg County, NC
Rowan County, NC

Charlotte—Gastonia—Rock Hill, NC—SC MSA—Con.

Union County, NC
York County, SC

Columbia, SC MSA

Lexington County, SC
Richland County, SC

Florence, SC MSA

Florence County, SC

Greenville—Spartanburg—Anderson, SC MSA

Anderson County, SC
Cherokee County, SC
Greenville County, SC
Pickens County, SC
Spartanburg County, SC

Myrtle Beach, SC MSA

Horry County, SC

Sumter, SC MSA

Sumter County, SC

