

North Carolina

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**1997 Economic Census**

*Manufacturing*

Geographic Area Series



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

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## CONTENTS

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Introduction to the Economic Census .....	1
Manufacturing .....	5
TABLES	
1. Industry Statistics for the State: 1997 .....	7
2. Industry Statistics for Metropolitan Areas: 1997 .....	23
3. Industry Statistics for Counties: 1997 .....	58
4. Industry Statistics for Places: 1997 .....	97
5. Detailed Statistics for the State: 1997 .....	125
APPENDIXES	
A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Coverage and Methodology .....	C-1
D. Geographic Notes .....	D-1
E. Metropolitan Areas .....	E-1

# Introduction to the Economic Census

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## 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

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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](http://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.

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## 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](http://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](http://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

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## 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

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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—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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NORTH CAROLINA— Con.</b>												
	<b>Manufacturing— Con.</b>												
322	Paper mfg—Con.												
3222	Converted paper product mfg .....	—	184	136	14 175	481 522	11 052	23 148	320 588	1 386 994	1 895 036	3 270 977	141 637
32221	Paperboard container mfg .....	—	121	98	9 732	316 059	7 479	15 925	202 044	814 484	1 061 169	1 867 068	95 562
322211	Corrugated & solid fiber box mfg .....	—	70	58	5 058	165 353	3 701	7 786	95 850	403 919	605 201	1 006 925	43 785
322212	Folding paperboard box mfg .....	—	29	25	3 254	109 544	2 600	5 705	74 147	292 076	316 607	603 444	41 499
322213	Setup paperboard box mfg .....	4	8	5	e	D	D	D	D	D	D	D	D
322214	Fiber can, tube, drum, & similar products mfg .....	—	13	9	788	22 554	648	1 394	17 606	57 360	68 854	126 078	4 818
322215	Nonfolding sanitary food container mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg .....	—	23	16	2 316	94 373	1 876	3 875	68 640	192 409	588 182	775 938	15 493
322222	Coated & laminated paper mfg .....	1	12	7	868	27 098	738	1 554	19 899	70 691	140 473	211 988	6 673
322224	Uncoated paper & multiwall bag mfg .....	—	3	3	250	5 564	203	363	3 730	12 267	21 788	33 964	D
322225	Laminated aluminum foil mfg for flexible packaging uses .....	—	3	3	f	D	D	D	D	D	D	D	6 391
322226	Surface-coated paperboard mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	1	10	5	529	15 650	420	861	10 208	40 757	49 386	89 397	2 048
322231	Die-cut paper & paperboard office supplies mfg .....	2	5	2	205	4 726	144	265	2 759	12 064	22 713	34 831	1 103
322232	Envelope mfg .....	—	3	2	c	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg ..	—	2	1	c	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg .....	1	30	17	1 598	55 440	1 277	2 487	39 696	339 344	196 299	538 574	28 534
322291	Sanitary paper product mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	6	27	15	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	1	1 157	213	19 830	588 316	14 603	27 713	371 997	1 325 920	871 120	2 213 871	128 918
3231	Printing & related support activities .....	1	1 157	213	19 830	588 316	14 603	27 713	371 997	1 325 920	871 120	2 213 871	128 918
32311	Printing .....	1	1 042	179	17 889	531 373	13 115	24 830	333 936	1 210 435	847 041	2 073 721	122 272
323110	Commercial lithographic printing ..	1	482	94	8 237	259 791	5 950	11 484	165 624	603 877	437 510	1 037 249	72 885
323111	Commercial gravure printing .....	—	13	2	649	26 020	491	838	18 607	31 153	35 141	67 521	928
323112	Commercial flexographic printing ..	—	40	13	995	32 803	711	1 541	17 955	68 676	77 643	144 049	5 725
323113	Commercial screen printing .....	—	161	28	2 898	66 814	2 265	3 933	40 914	142 555	115 036	274 193	14 449
323114	Quick printing .....	2	188	7	1 095	25 986	765	1 259	16 087	52 078	29 662	81 730	6 626
323115	Digital printing .....	1	11	1	101	2 984	62	88	1 348	7 367	3 587	10 954	D
323116	Manifold business form printing .....	2	29	13	1 403	35 564	921	1 844	24 320	134 642	61 475	195 691	6 625
323117	Book printing .....	—	18	8	1 576	58 814	1 267	2 695	35 047	112 185	47 553	162 019	8 325
323118	Blankbook, looseleaf binder, & device mfg .	—	6	4	216	4 887	153	286	2 978	14 113	12 208	26 422	D
323119	Other commercial printing .....	4	94	9	719	17 710	530	862	11 056	43 789	27 226	73 893	2 828
32312	Support activities for printing .....	2	115	34	1 941	56 943	1 488	2 883	38 061	115 485	24 079	140 150	6 646
323121	Tradebinding & related work .....	2	40	14	769	14 289	632	1 120	9 941	26 972	5 619	32 657	2 192
323122	Prepress services .....	2	75	20	1 172	42 654	856	1 763	28 120	88 513	18 460	107 493	4 454
324	Petroleum & coal products mfg .....	—	32	5	764	24 753	531	1 042	16 256	120 606	191 181	311 487	5 867
3241	Petroleum & coal products mfg .....	—	32	5	764	24 753	531	1 042	16 256	120 606	191 181	311 487	5 867
32412	Asphalt paving, roofing, & saturated materials mfg .....	—	26	3	509	18 874	367	815	13 612	67 312	135 721	202 542	4 527
324121	Asphalt paving mixture & block mfg .....	2	20	1	120	2 867	68	119	1 845	14 571	30 364	45 049	D
324122	Asphalt shingle & coating materials mfg .....	—	6	2	389	16 007	299	696	11 767	52 741	105 357	157 493	D
32419	Other petroleum & coal products mfg .....	—	6	2	255	5 879	164	227	2 644	53 294	55 460	108 945	1 340
324191	Petroleum lubricating oil & grease mfg .....	—	5	2	e	D	D	D	D	D	D	D	D



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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NORTH CAROLINA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg .....	1	426	195	40 045	1 543 458	26 120	54 017	836 899	13 985 697	8 429 069	22 251 006	589 848
3251	Basic chemical mfg .....	—	68	31	5 339	249 264	3 415	7 249	143 579	1 095 921	1 232 512	2 325 214	139 874
32511	Petrochemical mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
325110	Petrochemical mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
32512	Industrial gas mfg .....	—	15	5	c	D	D	D	D	D	D	D	D
325120	Industrial gas mfg .....	—	15	5	c	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg .....	—	9	4	718	27 832	288	598	12 053	101 490	82 747	184 669	14 585
325132	Synthetic organic dye & pigment mfg .....	—	7	4	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg .....	—	18	9	1 821	84 811	1 391	2 821	58 348	371 174	202 846	586 756	37 493
325188	All other basic inorganic chemical mfg .....	—	17	8	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	1	25	12	2 123	101 190	1 315	2 991	56 286	527 383	567 378	1 077 388	73 978
325192	Cyclic crude & intermediate mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	2	24	11	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	—	42	33	8 780	316 912	6 504	13 469	205 455	1 264 922	1 366 929	2 638 287	100 090
32521	Resin & synthetic rubber mfg .....	1	28	20	2 266	94 871	1 188	2 462	43 411	324 051	534 658	855 990	51 072
325211	Plastics material & resin mfg .....	1	24	19	2 191	91 322	1 139	2 361	41 401	306 655	516 909	820 416	D
32522	Artificial & synthetic fibers & filaments mfg ..	—	14	13	6 514	222 041	5 316	11 007	162 044	940 871	832 271	1 782 297	49 018
325222	Noncellulosic organic fiber mfg .....	—	14	13	6 514	222 041	5 316	11 007	162 044	940 871	832 271	1 782 297	49 018
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	—	34	11	1 675	56 371	1 108	2 657	35 086	589 016	709 194	1 273 765	27 239
32531	Fertilizer mfg .....	1	25	7	1 398	43 950	945	2 320	28 897	221 902	481 542	678 757	20 877
325312	Phosphatic fertilizer mfg .....	—	3	1	g	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg .....	2	18	5	e	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg .....	—	9	4	277	12 421	163	337	6 189	367 114	227 652	595 008	6 362
325320	Pesticide & other agricultural chemical mfg .....	—	9	4	277	12 421	163	337	6 189	367 114	227 652	595 008	6 362
3254	Pharmaceutical & medicine mfg .....	—	51	33	9 630	395 196	5 987	13 156	207 880	7 829 795	3 057 074	10 782 002	166 025
32541	Pharmaceutical & medicine mfg .....	—	51	33	9 630	395 196	5 987	13 156	207 880	7 829 795	3 057 074	10 782 002	166 025
325411	Medicinal & botanical mfg .....	—	9	5	1 027	46 054	748	1 564	28 363	217 054	224 607	455 945	17 545
325412	Pharmaceutical preparation mfg .....	—	25	18	5 988	243 625	4 089	9 065	140 566	7 041 443	2 454 342	9 393 669	86 204
325413	In-vitro diagnostic substance mfg .....	1	4	4	812	43 193	255	498	10 057	93 973	45 105	138 912	D
325414	Biological product (except diagnostic) mfg .....	5	13	6	1 803	62 324	895	2 029	28 894	477 325	333 020	793 476	D
3255	Paint, coating, & adhesive mfg .....	1	54	23	2 336	89 138	1 194	2 453	30 965	308 786	367 959	666 515	26 935
32551	Paint & coating mfg .....	1	29	16	2 018	75 186	1 028	2 131	26 647	273 195	320 399	582 872	21 531
325510	Paint & coating mfg .....	1	29	16	2 018	75 186	1 028	2 131	26 647	273 195	320 399	582 872	21 531
32552	Adhesive mfg .....	4	25	7	318	13 952	166	322	4 318	35 591	47 560	83 643	5 404
325520	Adhesive mfg .....	4	25	7	318	13 952	166	322	4 318	35 591	47 560	83 643	5 404
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	82	33	7 620	242 414	4 905	8 837	114 980	2 070 516	875 619	2 925 079	77 983
32561	Soap & cleaning compound mfg .....	1	73	25	2 542	98 443	1 195	2 200	32 730	354 721	389 494	736 313	23 356
325611	Soap & other detergent mfg .....	1	26	6	872	35 356	398	740	9 978	107 920	100 064	206 440	D
325612	Polish & other sanitation good mfg ..	—	15	4	465	11 371	255	343	5 454	53 902	43 648	94 365	D
325613	Surface active agent mfg .....	2	32	15	1 205	51 716	542	1 117	17 298	192 899	245 782	435 508	15 052
32562	Toilet preparation mfg .....	2	9	8	5 078	143 971	3 710	6 637	82 250	1 715 795	486 125	2 188 766	54 627
325620	Toilet preparation mfg .....	2	9	8	5 078	143 971	3 710	6 637	82 250	1 715 795	486 125	2 188 766	54 627

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NORTH CAROLINA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3259	Other chemical product mfg .....	3	95	31	4 665	194 163	3 007	6 196	98 954	826 741	819 782	1 640 144	51 702
32591	Printing ink mfg .....	3	26	10	f	D	D	D	D	D	D	D	D
325910	Printing ink mfg .....	3	26	10	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	3	68	21	3 884	166 142	2 594	5 361	85 293	737 307	707 953	1 441 933	49 167
325991	Custom compounding of purchased resin ...	3	18	10	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg .....	6	9	2	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg .....	-	41	9	1 790	80 744	1 170	2 132	34 208	329 586	315 322	634 272	29 842
326	Plastics & rubber products mfg .....	-	525	312	45 110	1 322 349	36 429	71 519	919 560	3 877 638	3 613 482	7 494 083	359 902
3261	Plastics product mfg .....	-	415	262	29 914	800 380	23 706	45 561	522 084	2 450 459	2 393 731	4 836 670	233 812
32611	Unsupported plastics film, sheet, & bag mfg ..	-	47	29	4 252	133 898	3 217	6 531	87 809	490 447	519 373	1 025 256	34 262
326111	Unsupported plastics bag mfg .....	-	14	10	1 922	49 553	1 420	3 061	32 074	123 400	167 248	291 137	12 259
326112	Unsupported plastics packaging film & sheet mfg .....	3	5	4	342	10 488	260	545	7 802	30 516	44 720	74 675	1 521
326113	Unsupported plastics film & sheet (except packaging) mfg .....	-	28	15	1 988	73 857	1 537	2 925	47 933	336 531	307 405	659 444	20 482
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	-	30	14	2 317	76 782	1 678	3 489	44 729	299 515	309 526	585 900	32 329
326121	Unsupported plastics profile shape mfg .....	-	20	4	962	35 838	552	1 308	15 548	160 724	79 249	237 176	4 378
326122	Plastics pipe & pipe fitting mfg .....	-	10	10	1 355	40 944	1 126	2 181	29 181	138 791	230 277	348 724	27 951
32613	Laminated plastics plate, sheet, & shape mfg .....	-	14	5	1 247	40 936	1 067	2 238	31 085	183 606	116 621	298 799	17 665
326130	Laminated plastics plate, sheet, & shape mfg .....	-	14	5	1 247	40 936	1 067	2 238	31 085	183 606	116 621	298 799	17 665
32614	Polystyrene foam product mfg .....	-	21	12	1 269	35 045	1 071	2 149	26 297	125 705	126 726	253 933	8 243
326140	Polystyrene foam product mfg .....	-	21	12	1 269	35 045	1 071	2 149	26 297	125 705	126 726	253 933	8 243
32615	Urethane & other foam product (except polystyrene) mfg .....	1	60	51	4 738	114 673	3 947	6 852	75 573	290 748	420 988	712 718	25 589
326150	Urethane & other foam product (except polystyrene) mfg .....	1	60	51	4 738	114 673	3 947	6 852	75 573	290 748	420 988	712 718	25 589
32616	Plastics bottle mfg .....	-	12	8	779	21 414	655	1 201	16 673	75 515	88 510	164 854	16 250
326160	Plastics bottle mfg .....	-	12	8	779	21 414	655	1 201	16 673	75 515	88 510	164 854	16 250
32619	Other plastics product mfg .....	1	231	143	15 312	377 632	12 071	23 101	239 918	984 923	811 987	1 795 210	99 474
326191	Plastics plumbing fixture mfg .....	3	18	6	273	6 457	188	348	3 838	14 673	8 951	23 600	470
326199	All other plastics product mfg .....	1	213	137	15 039	371 175	11 883	22 753	236 080	970 250	803 036	1 771 610	99 004
3262	Rubber product mfg .....	-	110	50	15 196	521 969	12 723	25 958	397 476	1 427 179	1 219 751	2 657 413	126 090
32621	Tire mfg .....	-	40	9	7 882	317 423	6 879	13 887	261 598	937 576	800 132	1 720 794	67 510
326211	Tire mfg (except retreading) .....	-	9	7	7 646	312 201	6 673	13 455	257 216	926 967	784 523	1 694 628	67 201
326212	Tire retreading .....	-	31	2	236	5 222	206	432	4 382	10 609	15 609	26 166	309
32622	Rubber & plastics hoses & belting mfg .....	-	17	13	2 317	68 310	1 758	3 659	46 008	129 407	137 620	296 655	10 420
326220	Rubber & plastics hoses & belting mfg .....	-	17	13	2 317	68 310	1 758	3 659	46 008	129 407	137 620	296 655	10 420
32629	Other rubber product mfg .....	-	53	28	4 997	136 236	4 086	8 412	89 870	360 196	281 999	639 964	48 160
326291	Rubber product mfg for mechanical use .....	-	24	11	2 453	61 223	2 064	4 384	44 868	145 316	102 413	247 147	17 806
326299	All other rubber product mfg .....	-	29	17	2 544	75 013	2 022	4 028	45 002	214 880	179 586	392 817	30 354

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NORTH CAROLINA—Con.</b>													
<b>31-33 Manufacturing—Con.</b>													
327	Nonmetallic mineral product mfg .....	-	554	175	22 447	662 990	18 124	37 586	479 084	2 629 210	1 345 641	3 968 610	299 370
3271	Clay product & refractory mfg .....	-	87	35	4 426	119 919	3 660	7 666	87 192	340 691	159 811	499 913	27 155
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	52	9	1 913	53 234	1 592	3 458	40 159	162 994	76 670	234 358	16 128
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	-	48	7	g	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 .....	-	35	26	2 513	66 685	2 068	4 208	47 033	177 697	83 141	265 555	11 027
327121	Brick & structural clay tile mfg .....	-	26	21	1 906	47 961	1 608	3 159	34 137	141 650	56 788	203 157	6 011
327122	Ceramic wall & floor tile mfg .....	-	5	1	e	D	D	D	D	D	D	D	D
327124	Clay refractory mfg ...	-	2	2	c	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg .....	-	2	2	c	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .....	-	78	31	10 584	340 069	8 704	18 220	250 267	1 637 561	607 736	2 243 290	221 347
32721	Glass & glass product mfg .....	-	78	31	10 584	340 069	8 704	18 220	250 267	1 637 561	607 736	2 243 290	221 347
327211	Flat glass mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg .....	-	12	3	h	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass .....	-	62	24	5 856	172 307	4 538	9 701	113 425	1 033 139	287 817	1 312 060	129 489
3273	Cement & concrete product mfg .....	2	309	82	5 372	150 858	4 192	8 745	106 298	432 132	435 092	866 546	41 813
32732	Ready-mix concrete mfg ..	2	193	47	3 198	89 930	2 618	5 507	69 216	255 363	304 182	560 141	30 586
327320	Ready-mix concrete mfg .....	2	193	47	3 198	89 930	2 618	5 507	69 216	255 363	304 182	560 141	30 586
32733	Concrete pipe, brick, & block mfg .....	1	50	21	1 209	36 197	852	1 836	20 900	108 280	95 922	202 892	D
327331	Concrete block & brick mfg .....	3	33	10	634	19 593	397	873	10 692	50 554	70 451	120 117	3 960
327332	Concrete pipe mfg ....	-	17	11	575	16 604	455	963	10 208	57 726	25 471	82 775	D
32739	Other concrete product mfg .....	1	64	13	f	D	D	D	D	D	D	D	4 547
327390	Other concrete product mfg .....	1	64	13	f	D	D	D	D	D	D	D	4 547
3274	Lime & gypsum product mfg .....	-	6	4	229	6 124	191	444	4 513	45 599	49 517	95 269	769
32742	Gypsum product mfg ....	-	6	4	229	6 124	191	444	4 513	45 599	49 517	95 269	769
327420	Gypsum product mfg ..	-	6	4	229	6 124	191	444	4 513	45 599	49 517	95 269	769
3279	Other nonmetallic mineral product mfg .....	1	74	23	1 836	46 020	1 377	2 511	30 814	173 227	93 485	263 592	8 286
32791	Abrasive product mfg ...	1	13	7	620	16 039	396	770	8 351	82 917	30 127	108 720	2 467
327910	Abrasive product mfg .	1	13	7	620	16 039	396	770	8 351	82 917	30 127	108 720	2 467
32799	All other nonmetallic mineral product mfg ...	1	61	16	1 216	29 981	981	1 741	22 463	90 310	63 358	154 872	5 819
327991	Cut stone & stone product mfg .....	3	30	8	594	14 544	463	925	10 599	44 715	23 733	69 385	2 087
327992	Ground or treated mineral & earth mfg ..	-	12	2	196	6 111	157	271	4 399	15 860	18 573	34 327	1 598
327993	Mineral wool mfg .....	-	8	4	319	7 515	270	442	6 024	24 045	16 881	41 260	1 756
327999	All other miscellaneous nonmetallic mineral product mfg .....	2	11	2	107	1 811	91	103	1 441	5 690	4 171	9 900	378
331	Primary metal mfg .....	-	78	50	7 914	277 592	6 402	13 305	200 877	813 921	1 202 545	1 975 195	70 159
3311	Iron & steel mills & ferroalloy mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
331111	Iron & steel mills .....	-	1	1	c	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel .....	-	11	7	f	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel .....	-	2	2	c	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel .....	-	2	2	c	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel .....	-	9	5	524	15 747	402	797	12 006	43 120	114 184	157 620	6 416
331221	Cold-rolled steel shape mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
331222	Steel wire drawing ....	-	8	4	e	D	D	D	D	D	D	D	D





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<b>31-33</b>	<b>NORTH CAROLINA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3332	Industrial machinery mfg ..	-	241	91	7 813	267 155	4 696	9 231	129 984	615 226	658 175	1 249 029	46 041
33321	Sawmill & woodworking machinery mfg .....	-	20	6	799	24 866	499	956	12 992	56 140	44 509	99 897	1 929
333210	Sawmill & woodworking machinery mfg .....	-	20	6	799	24 866	499	956	12 992	56 140	44 509	99 897	1 929
33322	Plastics & rubber industry machinery mfg .....	2	12	9	404	13 813	217	450	6 101	39 681	29 932	65 465	3 694
333220	Plastics & rubber industry machinery mfg .....	2	12	9	404	13 813	217	450	6 101	39 681	29 932	65 465	3 694
33329	Other industrial machinery mfg .....	-	209	76	6 610	228 476	3 980	7 825	110 891	519 405	583 734	1 083 667	40 418
333291	Paper industry machinery mfg .....	-	11	4	513	18 201	236	394	6 995	54 526	193 702	242 980	3 447
333292	Textile machinery mfg .....	-	127	40	3 681	117 967	2 242	4 407	55 801	276 056	215 830	483 819	24 535
333293	Printing machinery & equipment mfg .....	-	13	5	376	15 619	218	455	8 715	32 999	31 884	64 897	3 257
333294	Food product machinery mfg .....	-	7	5	775	30 668	492	983	16 553	51 762	55 601	105 874	2 636
333298	All other industrial machinery mfg .....	2	51	22	1 265	46 021	792	1 586	22 827	104 062	86 717	186 097	6 543
3333	Commercial & service industry machinery mfg ..	-	40	13	1 587	48 777	978	2 066	21 682	129 445	145 247	262 268	17 684
33331	Commercial & service industry machinery mfg .....	-	40	13	1 587	48 777	978	2 066	21 682	129 445	145 247	262 268	17 684
333313	Office machinery mfg ..	-	3	2	c	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg .....	-	28	10	1 364	41 243	817	1 763	17 736	67 002	108 235	176 541	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	60	34	5 592	152 209	4 161	8 698	94 958	437 563	435 474	873 543	26 071
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	60	34	5 592	152 209	4 161	8 698	94 958	437 563	435 474	873 543	26 071
333411	Air purification equipment mfg .....	-	23	14	1 830	48 816	1 351	2 917	28 579	110 714	93 512	202 190	6 847
333412	Industrial & commercial fan & blower mfg .....	6	8	5	403	10 365	303	547	6 543	26 077	23 554	49 838	1 064
333414	Heating equipment (except warm air furnaces) mfg .....	-	10	6	772	18 628	548	1 179	11 392	54 884	44 691	98 837	1 547
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	19	9	2 587	74 400	1 959	4 055	48 444	245 888	273 717	522 678	16 613
3335	Metalworking machinery mfg .....	2	156	36	3 171	110 248	2 473	4 890	72 678	230 403	127 897	356 445	16 819
33351	Metalworking machinery mfg .....	2	156	36	3 171	110 248	2 473	4 890	72 678	230 403	127 897	356 445	16 819
333511	Industrial mold mfg ...	3	39	12	690	28 771	558	1 222	20 877	51 652	14 908	66 445	4 034
333512	Machine tool (metal cutting types) mfg ...	-	4	2	109	4 812	66	116	1 990	14 481	14 169	28 001	D
333513	Machine tool (metal forming types) mfg ...	6	4	4	305	12 244	172	394	5 984	26 466	24 928	51 416	1 490
333514	Special die & tool, die set, jig, & fixture mfg ..	2	75	9	730	22 437	602	1 101	16 788	47 169	12 977	59 451	3 399
333515	Cutting tool & machine tool accessory mfg ..	-	28	8	1 204	36 868	971	1 943	25 022	80 551	52 012	131 277	6 892
333518	Other metalworking machinery mfg .....	8	5	1	c	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	37	22	5 623	215 227	4 195	7 509	120 143	518 374	1 084 983	1 668 306	70 227
33361	Engine, turbine, & power transmission equipment mfg .....	-	37	22	5 623	215 227	4 195	7 509	120 143	518 374	1 084 983	1 668 306	70 227
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 ....	-	11	5	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg .....	-	12	9	946	29 173	690	1 377	17 412	79 983	139 199	226 558	D
333618	Other engine equipment mfg .....	-	12	6	2 828	100 792	2 200	3 542	47 948	237 452	884 405	1 121 474	54 509

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NORTH CAROLINA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg .....	-	167	77	12 708	401 439	8 778	17 367	220 964	1 103 728	1 342 077	2 444 349	78 065
33391	Pump & compressor mfg .....	-	20	12	3 416	127 138	2 008	3 951	58 999	365 916	555 015	926 302	17 142
333911	Pump & pumping equipment mfg .....	-	9	6	f	D	D	D	D	D	D	D	5 411
333912	Air & gas compressor mfg .....	-	8	4	f	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg .....	-	45	23	3 138	101 675	2 372	5 132	66 423	277 755	436 813	716 340	18 693
333921	Elevator & moving stairway mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg .....	-	21	10	727	23 692	484	1 166	13 359	54 946	59 966	116 970	3 194
333923	Overhead traveling crane, hoist, & monorail system mfg .....	-	6	2	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg .....	-	17	10	1 797	59 462	1 431	3 034	40 199	155 686	304 684	457 877	11 064
33399	All other general-purpose machinery mfg .....	-	102	42	6 154	172 626	4 398	8 284	95 542	460 057	350 249	801 707	42 230
333991	Power-driven handtool mfg .....	-	7	3	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg .....	-	5	2	273	8 196	177	346	3 617	20 335	17 707	40 912	1 707
333993	Packaging machinery mfg .....	1	19	5	338	13 152	169	328	4 987	20 583	31 280	51 552	774
333994	Industrial process furnace & oven mfg .....	1	6	4	342	13 128	204	504	8 313	29 524	30 148	57 736	2 512
333995	Fluid power cylinder & actuator mfg .....	4	4	3	193	5 646	147	265	3 699	9 178	7 044	15 916	D
333996	Fluid power pump & motor mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	1	56	23	2 385	74 963	1 539	3 272	37 599	238 877	147 160	382 809	11 111
334	Computer & electronic product mfg .....	-	328	157	51 206	1 625 042	23 443	43 112	574 713	5 771 890	10 503 880	16 552 379	290 136
3341	Computer & peripheral equipment mfg .....	-	35	11	j	D	D	D	D	D	D	D	45 257
33411	Computer & peripheral equipment mfg .....	-	35	11	j	D	D	D	D	D	D	D	45 257
334111	Electronic computer mfg .....	-	11	3	j	D	D	D	D	D	D	D	D
334112	Computer storage device mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
334113	Computer terminal mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	2	19	5	e	D	D	D	D	D	D	D	2 583
3342	Communications equipment mfg .....	-	42	25	8 221	382 914	3 747	6 781	122 329	1 486 248	1 373 917	2 902 772	39 057
33421	Telephone apparatus mfg .....	-	17	12	h	D	D	D	D	D	D	D	26 426
334210	Telephone apparatus mfg .....	-	17	12	h	D	D	D	D	D	D	D	26 426
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	16	10	h	D	D	D	D	D	D	D	10 666
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	16	10	h	D	D	D	D	D	D	D	10 666
33429	Other communications equipment mfg .....	8	9	3	e	D	D	D	D	D	D	D	1 965
334290	Other communications equipment mfg .....	8	9	3	e	D	D	D	D	D	D	D	1 965
3343	Audio & video equipment mfg .....	2	13	3	e	D	D	D	D	D	D	D	361
33431	Audio & video equipment mfg .....	2	13	3	e	D	D	D	D	D	D	D	361
334310	Audio & video equipment mfg .....	2	13	3	e	D	D	D	D	D	D	D	361

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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NORTH CAROLINA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	-	132	74	16 385	524 365	11 392	22 069	299 691	2 155 108	1 766 492	3 913 983	146 772
33441	Semiconductor & other electronic component mfg .....	-	132	74	16 385	524 365	11 392	22 069	299 691	2 155 108	1 766 492	3 913 983	146 772
334412	Bare printed circuit board mfg .....	3	23	5	e	D	D	D	D	D	D	D	670
334413	Semiconductor & related device mfg ...	-	14	6	1 796	83 839	855	1 461	28 923	166 851	179 970	350 600	81 914
334414	Electronic capacitor mfg .....	-	5	5	1 469	31 474	936	1 854	22 237	80 495	97 918	175 285	1 696
334415	Electronic resistor mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg .....	2	10	5	457	8 819	380	628	4 891	20 732	13 971	34 638	934
334417	Electronic connector mfg .....	-	14	13	h	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	-	18	16	4 535	147 572	3 104	6 790	76 655	876 298	947 954	1 822 217	15 485
334419	Other electronic component mfg .....	1	40	20	2 986	81 743	2 214	4 035	46 449	217 119	161 163	377 565	14 590
3345	Navigational, measuring, medical, & control instruments mfg .....	-	95	39	4 968	160 657	3 009	5 677	73 715	449 913	297 059	745 302	33 808
33451	Navigational, measuring, medical, & control instruments mfg .....	-	95	39	4 968	160 657	3 009	5 677	73 715	449 913	297 059	745 302	33 808
334510	Electromedical & electrotherapeutic apparatus mfg .....	1	8	3	389	15 347	246	511	7 099	47 713	25 828	73 149	6 794
334511	Search, detection, navigation, & guidance instrument mfg .....	-	10	5	953	28 719	569	979	14 562	89 241	41 200	128 965	7 662
334512	Automatic environmental control mfg .....	-	5	2	c	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg .....	2	25	8	459	13 519	243	379	5 840	31 258	18 480	50 011	1 402
334514	Totalizing fluid meter & counting device mfg ...	-	7	3	496	14 940	354	727	8 600	54 616	31 375	85 801	1 310
334515	Electricity measuring & testing instrument mfg .....	-	9	5	861	37 283	560	1 177	16 862	108 377	102 463	210 456	9 849
334516	Analytical laboratory instrument mfg .....	2	11	3	265	9 840	88	139	2 585	21 061	16 502	37 532	1 023
334517	Irradiation apparatus mfg .....	7	4	2	134	4 873	57	113	1 633	4 760	10 406	17 618	529
334518	Watch, clock, & part mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg .....	1	13	5	726	22 453	350	709	7 925	56 907	19 311	75 054	2 354
3346	Mfg & reproducing magnetic & optical media .	3	11	5	g	D	D	D	D	D	D	D	24 881
33461	Mfg & reproducing magnetic & optical media .....	3	11	5	g	D	D	D	D	D	D	D	24 881
334612	Prerecorded CD (except software), tape, & record reproducing .....	3	7	5	g	D	D	D	D	D	D	D	24 497
335	Electrical equipment, appliance, & component mfg .....	-	199	110	34 419	1 021 333	26 873	53 748	673 630	3 114 481	3 844 087	6 914 675	223 515
3351	Electric lighting equipment mfg .....	-	38	15	2 687	77 595	2 162	4 381	53 852	279 382	159 532	445 768	D
33511	Electric lamp bulb & part mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	-	37	14	h	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	1	24	8	903	17 900	769	1 563	11 678	39 920	32 739	72 231	1 133
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	6	3	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg .....	-	7	3	1 367	46 128	1 068	2 090	32 019	188 812	94 846	290 335	D



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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NORTH CAROLINA— Con. Manufacturing— Con.</b>												
335	Electrical equipment, appliance, & component mfg—Con.												
3352	Household appliance mfg...	-	9	8	3 539	79 639	3 138	5 702	62 641	210 359	309 597	511 866	D
33521	Small electrical appliance mfg .....	-	6	6	h	D	D	D	D	D	D	D	11 222
335211	Electric housewares & household fan mfg...	-	6	6	h	D	D	D	D	D	D	D	11 222
33522	Major appliance mfg ....	-	3	2	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	90	45	12 368	396 910	9 006	17 948	239 503	975 897	1 362 331	2 335 426	80 021
33531	Electrical equipment mfg .....	-	90	45	12 368	396 910	9 006	17 948	239 503	975 897	1 362 331	2 335 426	80 021
335311	Power, distribution, & specialty transformer mfg .....	-	9	5	1 160	39 312	821	1 632	22 269	107 403	83 439	188 477	12 624
335312	Motor & generator mfg .....	-	21	14	3 642	107 760	2 776	6 144	77 326	182 551	393 990	577 837	31 926
335313	Switchgear & switchboard apparatus mfg .....	-	17	9	1 574	49 450	1 235	2 420	30 785	93 758	177 483	273 910	9 217
335314	Relay & industrial control mfg .....	-	43	17	5 992	200 388	4 174	7 752	109 123	592 185	707 419	1 295 202	26 254
3359	Other electrical equipment & component mfg .....	-	62	42	15 825	467 189	12 567	25 717	317 634	1 648 843	2 012 627	3 621 615	121 640
33591	Battery mfg .....	-	9	7	3 305	107 190	2 523	4 615	71 857	612 664	455 812	1 058 960	24 524
335911	Storage battery mfg ...	-	3	3	g	D	D	D	D	D	D	D	9 005
335912	Primary battery mfg ...	-	6	4	g	D	D	D	D	D	D	D	15 519
33592	Communication & energy wire & cable mfg .....	-	16	15	5 597	182 753	4 379	9 465	124 165	603 528	1 096 109	1 673 483	64 308
335921	Fiber optic cable mfg..	-	4	4	g	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	12	11	h	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	18	11	4 482	105 440	3 804	7 980	77 338	268 279	191 154	457 461	18 761
335931	Current-carrying wiring device mfg .....	-	12	9	h	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg .....	-	6	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	-	19	9	2 441	71 806	1 861	3 657	44 274	164 372	269 552	431 711	14 047
335991	Carbon & graphite product mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg .....	-	16	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	315	133	32 624	1 090 877	25 827	52 149	789 647	3 570 549	5 155 852	8 657 765	244 813
3361	Motor vehicle mfg .....	-	25	3	h	D	D	D	D	D	D	D	11 870
33611	Automobile & light duty motor vehicle mfg .....	7	20	1	c	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	5	2	h	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	5	2	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg .....	-	69	23	4 197	124 283	3 244	6 829	92 836	177 079	551 928	715 946	24 805
33621	Motor vehicle body & trailer mfg .....	-	69	23	4 197	124 283	3 244	6 829	92 836	177 079	551 928	715 946	24 805
336211	Motor vehicle body mfg .....	-	41	19	3 818	115 254	2 931	6 215	86 462	155 678	520 538	662 832	24 147
336212	Truck trailer mfg .....	3	6	1	131	2 923	117	230	2 320	9 886	12 587	21 956	272
336214	Travel trailer & camper mfg .....	3	22	3	248	6 106	196	384	4 054	11 515	18 803	31 158	386
3363	Motor vehicle parts mfg ...	-	137	79	19 223	627 247	14 809	30 972	431 883	2 158 192	2 510 996	4 609 109	182 944
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	28	6	2 080	68 815	1 585	3 153	43 447	220 807	156 712	377 460	34 209
336312	Gasoline engine & engine parts mfg .....	-	28	6	2 080	68 815	1 585	3 153	43 447	220 807	156 712	377 460	34 209
33632	Motor vehicle electrical & electronic equipment mfg .....	-	14	10	1 535	38 465	1 171	2 499	21 310	139 838	133 280	267 028	16 693
336322	Other motor vehicle electrical & electronic equipment mfg .....	-	14	10	1 535	38 465	1 171	2 499	21 310	139 838	133 280	267 028	16 693
33633	Motor vehicle steering & suspension component (except spring) mfg ....	-	2	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg .....	-	2	1	e	D	D	D	D	D	D	D	D

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	<b>NORTH CAROLINA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33634	Motor vehicle brake system mfg .....	-	15	9	2 453	70 602	1 791	3 867	46 310	233 400	632 835	860 953	16 276
336340	Motor vehicle brake system mfg .....	-	15	9	2 453	70 602	1 791	3 867	46 310	233 400	632 835	860 953	16 276
33635	Motor vehicle transmission & power train parts mfg .....	-	27	21	5 513	209 476	4 396	8 886	150 083	872 850	1 002 920	1 836 188	70 170
336350	Motor vehicle transmission & power train parts mfg .....	-	27	21	5 513	209 476	4 396	8 886	150 083	872 850	1 002 920	1 836 188	70 170
33636	Motor vehicle seating & interior trim mfg .....	-	9	6	970	35 087	724	1 759	19 920	83 665	71 978	143 419	11 439
336360	Motor vehicle seating & interior trim mfg ...	-	9	6	970	35 087	724	1 759	19 920	83 665	71 978	143 419	11 439
33637	Motor vehicle metal stamping .....	-	9	6	e	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	9	6	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	-	33	20	5 980	182 065	4 653	9 741	134 551	536 447	473 613	1 013 152	30 502
336399	All other motor vehicle parts mfg .....	-	32	19	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	13	7	2 129	105 673	1 568	3 020	71 412	303 150	288 753	598 076	16 217
33641	Aerospace product & parts mfg .....	-	13	7	2 129	105 673	1 568	3 020	71 412	303 150	288 753	598 076	16 217
336412	Aircraft engine & engine parts mfg ....	-	6	5	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	-	4	1	c	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	4	2	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg .....	-	4	2	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg .....	-	4	2	e	D	D	D	D	D	D	D	D
3366	Ship & boat building .....	2	58	17	h	D	D	D	D	D	D	D	6 671
33661	Ship & boat building ....	2	58	17	h	D	D	D	D	D	D	D	6 671
336611	Ship building & repairing .....	4	10	3	g	D	D	D	D	D	D	D	D
336612	Boat building .....	1	48	14	1 535	34 106	1 259	2 023	20 294	74 074	106 481	179 421	D
3369	Other transportation equipment mfg .....	8	9	2	c	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	8	9	2	c	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	8	8	2	c	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	1 178	458	81 384	1 812 245	69 660	134 749	1 399 524	3 889 525	3 399 333	7 301 225	149 210
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	865	323	67 843	1 499 189	58 753	113 759	1 189 380	3 213 254	2 856 171	6 078 079	104 889
33711	Wood kitchen cabinet & counter top mfg .....	2	248	22	2 926	69 485	2 396	5 003	50 158	129 887	102 217	232 233	8 147
337110	Wood kitchen cabinet & counter top mfg ...	2	248	22	2 926	69 485	2 396	5 003	50 158	129 887	102 217	232 233	8 147
33712	Household & institutional furniture mfg .....	-	617	301	64 917	1 429 704	56 357	108 756	1 139 222	3 083 367	2 753 954	5 845 846	96 742
337121	Upholstered household furniture mfg .....	-	294	163	28 235	638 195	24 317	44 694	496 615	1 333 842	1 374 838	2 698 787	36 057
337122	Nonupholstered wood household furniture mfg .....	-	237	102	31 997	687 307	28 283	56 178	567 238	1 547 045	1 160 653	2 725 312	51 487
337124	Metal household furniture mfg .....	1	31	15	2 240	51 468	1 738	3 942	37 601	109 757	105 733	214 652	5 166
337125	Household furniture (except wood & metal) mfg .....	-	10	6	e	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg .....	1	42	13	1 009	21 285	741	1 311	13 948	40 382	43 824	84 385	1 646
337129	Wood television, radio, & sewing machine cabinet mfg .....	-	3	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NORTH CAROLINA—Con.</b>													
<b>31-33 Manufacturing—Con.</b>													
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg .....	1	274	116	12 142	274 400	9 808	18 969	188 517	580 380	450 179	1 033 940	36 134
33721	Office furniture (including fixtures) mfg .....	1	274	116	12 142	274 400	9 808	18 969	188 517	580 380	450 179	1 033 940	36 134
337211	Wood office furniture mfg .....	—	51	32	5 942	131 835	4 738	9 558	91 424	263 808	213 902	477 910	22 096
337212	Custom architectural woodwork & millwork mfg .....	1	30	5	398	10 148	306	620	6 742	17 550	13 070	30 843	1 153
337214	Office furniture (except wood) mfg .....	2	16	7	863	18 362	709	1 268	11 994	90 276	51 401	140 927	1 620
337215	Showcase, partition, shelving, & locker mfg .....	1	177	72	4 939	114 055	4 055	7 523	78 357	208 746	171 806	384 260	11 265
3379	Other furniture related product mfg .....	—	39	19	1 399	38 656	1 099	2 021	21 627	95 891	92 983	189 206	8 187
33791	Mattress mfg .....	—	31	16	1 266	34 326	1 020	1 920	20 141	91 936	86 869	179 051	7 263
337910	Mattress mfg .....	—	31	16	1 266	34 326	1 020	1 920	20 141	91 936	86 869	179 051	7 263
33792	Blind & shade mfg .....	4	8	3	133	4 330	79	101	1 486	3 955	6 114	10 155	924
337920	Blind & shade mfg .....	4	8	3	133	4 330	79	101	1 486	3 955	6 114	10 155	924
339	Miscellaneous mfg .....	1	745	133	18 288	500 245	13 588	25 285	286 795	1 424 077	1 106 012	2 547 689	96 080
3391	Medical equipment & supplies mfg .....	1	359	44	7 358	222 556	5 443	10 758	120 831	724 690	480 515	1 222 651	40 562
33911	Medical equipment & supplies mfg .....	1	359	44	7 358	222 556	5 443	10 758	120 831	724 690	480 515	1 222 651	40 562
339111	Laboratory apparatus & furniture mfg .....	—	8	2	587	21 491	375	731	9 142	19 726	47 186	66 211	1 216
339112	Surgical & medical instrument mfg .....	—	28	15	2 672	80 648	2 242	4 597	48 415	359 247	172 211	536 075	16 538
339113	Surgical appliance & supplies mfg .....	—	51	19	2 606	75 895	1 764	3 530	38 782	254 781	197 457	470 702	19 420
339114	Dental equipment & supplies mfg .....	—	24	3	443	17 908	281	581	8 150	29 654	42 411	65 602	1 318
339116	Dental laboratories .....	7	244	5	1 033	26 120	771	1 298	16 130	60 434	20 776	82 735	1 885
3399	Other miscellaneous mfg ..	1	386	89	10 930	277 689	8 145	14 527	165 964	699 387	625 497	1 325 038	55 518
33992	Sporting & athletic goods mfg .....	3	56	12	750	14 938	557	900	8 492	38 176	34 762	72 354	2 071
339920	Sporting & athletic goods mfg .....	3	56	12	750	14 938	557	900	8 492	38 176	34 762	72 354	2 071
33993	Doll, toy, & game mfg ...	—	14	3	1 022	36 475	745	1 115	20 516	60 554	40 689	105 745	2 288
339932	Game, toy, & children's vehicle mfg .....	—	12	3	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg .....	—	15	4	721	17 621	505	1 002	11 992	83 634	40 240	134 749	D
339942	Lead pencil & art good mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
339943	Marking device mfg ...	2	11	2	c	D	D	D	D	D	D	D	D
33995	Sign mfg .....	2	141	17	1 357	34 775	886	1 657	17 663	68 304	40 172	107 360	2 532
339950	Sign mfg .....	2	141	17	1 357	34 775	886	1 657	17 663	68 304	40 172	107 360	2 532
33999	All other miscellaneous mfg .....	1	132	53	6 998	172 186	5 395	9 758	106 347	443 826	465 080	895 349	43 933
339991	Gasket, packing, & sealing device mfg ...	—	15	9	912	25 242	712	1 525	16 884	49 776	33 295	85 341	6 790
339992	Musical instrument mfg .....	—	19	3	279	5 405	235	418	3 757	13 644	25 602	38 721	328
339993	Fastener, button, needle, & pin mfg .....	2	5	3	717	18 727	573	1 186	11 429	34 694	20 575	54 957	3 561
339994	Broom, brush, & mop mfg .....	—	9	4	1 084	22 187	863	1 337	15 269	45 133	52 687	96 634	2 312
339995	Burial casket mfg .....	1	8	2	167	4 427	130	260	2 364	7 464	9 506	17 359	422
339999	All other miscellaneous mfg .....	2	76	32	3 839	96 198	2 882	5 032	56 644	293 115	323 415	602 337	30 520

<sup>1</sup>Some 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.

<sup>2</sup>Industries 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ASHEVILLE, NC MSA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>347</b>	<b>133</b>	<b>18 516</b>	<b>517 723</b>	<b>13 999</b>	<b>28 665</b>	<b>323 154</b>	<b>1 480 618</b>	<b>1 617 125</b>	<b>3 110 550</b>	<b>108 793</b>
311	Food mfg . . . . .	2	8	4	864	20 082	729	1 823	15 460	223 748	212 476	436 014	4 299
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
311422	Specialty canning . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	-	17	12	1 981	51 312	1 707	3 889	37 776	115 897	101 643	219 445	12 333
3132	Fabric mills . . . . .	-	12	9	1 626	42 422	1 365	2 932	29 382	98 292	88 530	188 858	11 863
31323	Nonwoven fabric mills . . . . .	-	5	4	916	24 465	763	1 660	16 130	59 497	65 100	125 341	9 999
313230	Nonwoven fabric mills . . . . .	-	5	4	916	24 465	763	1 660	16 130	59 497	65 100	125 341	9 999
31324	Knit fabric mills . . . . .	-	3	2	e	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills . . . . .	-	3	2	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills . . . . .	-	4	2	e	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	-	11	3	1 071	24 090	995	2 542	18 416	41 545	61 086	110 570	D
3141	Textile furnishings mills . . . . .	-	3	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills . . . . .	-	2	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
3149	Other textile product mills . . . . .	-	8	2	e	D	D	D	D	D	D	D	246
31499	All other textile product mills . . . . .	-	5	1	287	5 468	249	402	3 539	8 366	10 208	18 280	D
314999	All other miscellaneous textile product mills . . . . .	-	5	1	287	5 468	249	402	3 539	8 366	10 208	18 280	D
321	Wood product mfg . . . . .	-	12	4	513	11 015	468	986	9 035	14 382	18 703	33 002	D
3219	Other wood product mfg . . . . .	-	9	3	e	D	D	D	D	D	D	D	D
32191	Millwork . . . . .	-	4	2	343	6 807	327	615	6 302	7 921	9 851	17 954	D
321912	Cut stock, resawing lumber, & planing . . . . .	-	3	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	1	34	9	661	18 296	490	894	11 553	33 207	21 736	54 282	7 718
3231	Printing & related support activities . . . . .	1	34	9	661	18 296	490	894	11 553	33 207	21 736	54 282	7 718
32311	Printing . . . . .	1	33	9	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	-	17	7	426	11 717	300	563	7 175	21 462	11 237	32 480	4 594
325	Chemical mfg . . . . .	-	6	2	f	D	D	D	D	D	D	D	152
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	19	16	1 792	50 266	1 458	2 579	30 164	120 502	136 181	256 252	18 435
3261	Plastics product mfg . . . . .	1	17	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	1	12	11	1 021	21 941	879	1 303	15 108	44 651	43 459	86 552	6 132
326199	All other plastics product mfg . . . . .	2	11	10	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
32629	Other rubber product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
326299	All other rubber product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	2	66	21	1 234	35 272	922	1 761	22 155	70 904	74 811	145 869	4 111
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	3	38	10	614	16 865	464	897	11 499	29 014	13 076	41 992	2 403
33271	Machine shops . . . . .	2	33	7	476	12 812	360	687	8 925	21 949	9 063	30 989	1 493
332710	Machine shops . . . . .	2	33	7	476	12 812	360	687	8 925	21 949	9 063	30 989	1 493
333	Machinery mfg . . . . .	-	42	18	2 325	76 284	1 646	3 507	46 943	227 359	182 117	411 465	7 602
3331	Agriculture, construction, & mining machinery mfg . . . . .	-	2	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ASHEVILLE, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	4	4	655	18 719	424	877	10 214	65 656	39 548	105 017	1 810
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	4	4	655	18 719	424	877	10 214	65 656	39 548	105 017	1 810
333415	AC & warm air heating & commercial/ industrial refrig equip mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg . . . . .	—	15	5	353	13 779	264	543	8 554	32 314	13 493	45 113	1 054
33351	Metalworking machinery mfg . . . . .	—	15	5	353	13 779	264	543	8 554	32 314	13 493	45 113	1 054
3336	Engine, turbine, & power transmission equipment mfg . . . . .	—	5	3	720	21 850	582	1 243	16 153	83 297	76 444	161 020	3 783
33361	Engine, turbine, & power transmission equipment mfg . . . . .	—	5	3	720	21 850	582	1 243	16 153	83 297	76 444	161 020	3 783
333618	Other engine equipment mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	1	20	10	g	D	D	D	D	D	D	D	17 169
3342	Communications equipment mfg . . . . .	9	3	2	e	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg . . . . .	9	2	1	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg . . . . .	9	2	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg . . . . .	—	7	3	e	D	D	D	D	D	D	D	1 378
33441	Semiconductor & other electronic component mfg . . . . .	—	7	3	e	D	D	D	D	D	D	D	1 378
334419	Other electronic component mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	—	7	3	478	14 408	335	677	8 338	19 033	18 665	37 761	D
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	—	7	3	478	14 408	335	677	8 338	19 033	18 665	37 761	D
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	—	10	8	2 562	72 059	1 916	3 550	45 176	275 391	179 657	455 573	10 035
3353	Electrical equipment mfg . . . . .	—	7	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	—	7	7	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg . . . . .	—	5	5	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	10	5	1 250	36 726	894	1 979	23 019	92 122	341 568	434 210	4 819
3363	Motor vehicle parts mfg . . . . .	—	7	3	f	D	D	D	D	D	D	D	2 468
33634	Motor vehicle brake system mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	2	40	7	685	20 269	434	828	9 390	46 830	51 341	101 474	9 626
3391	Medical equipment & supplies mfg . . . . .	2	20	5	531	17 223	313	607	7 343	41 777	47 821	93 040	9 296
33911	Medical equipment & supplies mfg . . . . .	2	20	5	531	17 223	313	607	7 343	41 777	47 821	93 040	9 296
339113	Surgical appliance & supplies mfg . . . . .	—	6	2	253	7 055	126	246	2 340	18 326	37 672	59 620	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b> <b>Manufacturing—Con.</b>												
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
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

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b> <b>Manufacturing—Con.</b>												
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
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



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b> <b>Manufacturing—Con.</b>												
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
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



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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b> <b>Manufacturing—Con.</b>												
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
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

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
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

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CHARLOTTE—GASTONIA—ROCK HILL, NC—SC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
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
	<b>FAYETTEVILLE, NC MSA</b>												
<b>31-33</b>	<b>Manufacturing</b>	—	<b>121</b>	<b>52</b>	<b>12 282</b>	<b>384 612</b>	<b>9 912</b>	<b>19 938</b>	<b>281 927</b>	<b>1 419 353</b>	<b>1 367 574</b>	<b>2 766 911</b>	<b>93 238</b>
311	Food mfg	—	9	5	310	10 607	254	521	7 057	58 362	245 086	297 852	4 107
313	Textile mills	8	2	2	e	D	D	D	D	D	D	D	D
3132	Fabric mills	8	2	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg	—	6	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	5	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	2	2	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	—	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg	3	15	9	462	9 534	369	732	6 275	19 144	26 847	46 386	856
323	Printing & related support activities	2	20	5	267	6 197	194	331	3 534	9 832	6 205	16 097	1 065
3231	Printing & related support activities	2	20	5	267	6 197	194	331	3 534	9 832	6 205	16 097	1 065
32311	Printing	2	20	5	267	6 197	194	331	3 534	9 832	6 205	16 097	1 065
325	Chemical mfg	—	7	4	663	30 363	471	1 007	18 770	364 285	308 649	668 789	17 900
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	3	3	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	—	2	2	e	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	—	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	3	2	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	2	1	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	—	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	1	1	h	D	D	D	D	D	D	D	D
32621	Tire mfg	—	1	1	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	10	6	259	5 231	207	435	3 844	18 854	18 692	37 260	1 016
3273	Cement & concrete product mfg	1	9	6	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>31-33</b>	<b>FAYETTEVILLE, NC MSA—Con.</b>													
	<b>Manufacturing—Con.</b>													
333	Machinery mfg . . . . .	-	5	2	g	D	D	D	D	D	D	D	D	
3339	Other general-purpose machinery mfg . . . . .	-	2	1	g	D	D	D	D	D	D	D	D	
33399	All other general-purpose machinery mfg . . . . .	-	1	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	
335	Electrical equipment, appliance, & component mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	
335314	Relay & industrial control mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg . . . . .	-	6	4										
			6	4		1 490	43 114	1 026	2 280	26 012	118 235	144 493	267 256	D
3363	Motor vehicle parts mfg . . . . .	-	6	4		1 490	43 114	1 026	2 280	26 012	118 235	144 493	267 256	D
33639	Other motor vehicle parts mfg . . . . .	-	4	3	g	D	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg . . . . .	-	4	3	g	D	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>GOLDSBORO, NC MSA</b>		<b>101</b>	<b>44</b>		<b>9 495</b>	<b>231 053</b>	<b>7 597</b>	<b>12 716</b>	<b>159 152</b>	<b>646 669</b>	<b>762 695</b>	<b>1 417 451</b>	<b>47 660</b>
311	Food mfg . . . . .	1	13	7		3 820	84 799	2 980	3 136	53 534	248 070	351 013	603 620	19 587
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying . . . . .	-	2	1	f	D	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning . . . . .	-	2	1	f	D	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	-	6	3	g	D	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	-	6	3	g	D	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	-	2	2	g	D	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	9	2	2	f	D	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	9	1	1	f	D	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	-	2	2	e	D	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	-	6	2	f	D	D	D	D	D	D	D	D	D
3141	Textile furnishings mills . . . . .	-	6	2	f	D	D	D	D	D	D	D	D	D
31412	Curtain & linen mills . . . . .	-	6	2	f	D	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills . . . . .	-	5	1	e	D	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	D
315	Apparel mfg . . . . .	-	6	4		580	7 315	481	950	6 355	3 597	18 602	22 309	D
3151	Apparel knitting mills . . . . .	-	2	2	e	D	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	-	9	5	f	D	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
321212	Softwood veneer & plywood mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	D
32629	Other rubber product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	11	6		352	8 493	245	495	4 934	18 861	9 535	28 381	D
333	Machinery mfg . . . . .	-	4	1	e	D	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
333294	Food product machinery 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
313	Textile mills—Con.												
3133	Textile & fabric finishing & fabric coating mills . . . . .	1	49	22	4 744	126 771	3 928	9 454	92 535	366 725	654 293	1 026 588	30 288
31331	Textile & fabric finishing mills . . . . .	1	47	21	h	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills . . . . .	1	37	13	2 669	73 060	2 177	5 598	53 323	253 542	482 140	734 473	22 150
313312	Textile & fabric finishing mills . . . . .	1	10	8	g	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	1	80	31	3 078	73 324	2 501	4 421	51 450	177 661	189 017	371 644	6 360
3141	Textile furnishings mills . . . . .	—	33	8	1 466	35 456	1 237	2 559	26 453	120 100	120 289	243 701	2 756
31412	Curtain & linen mills . . . . .	—	31	8	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills . . . . .	—	17	7	1 351	33 443	1 146	2 385	25 056	114 514	116 527	234 490	2 507
3149	Other textile product mills . . . . .	2	47	23	1 612	37 868	1 264	1 862	24 997	57 561	68 728	127 943	3 604
31491	Textile bag & canvas mills . . . . .	1	8	4	251	5 901	185	373	3 096	8 156	12 460	20 696	89
31499	All other textile product mills . . . . .	2	39	19	1 361	31 967	1 079	1 489	21 901	49 405	56 268	107 247	3 515
314999	All other miscellaneous textile product mills . . . . .	2	37	19	g	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	1	158	100	15 089	285 910	13 075	24 583	217 460	703 732	812 842	1 523 325	30 236
3151	Apparel knitting mills . . . . .	1	102	71	10 828	208 780	9 688	18 588	165 113	406 667	505 555	914 585	24 949
31511	Hosiery & sock mills . . . . .	1	91	63	10 084	194 672	9 045	17 456	154 647	373 464	428 501	803 245	22 781
315111	Sheer hosiery mills . . . . .	1	32	21	5 118	101 061	4 658	9 061	81 086	160 434	193 758	356 503	10 479
315119	Other hosiery & sock mills . . . . .	1	59	42	4 966	93 611	4 387	8 395	73 561	213 030	234 743	446 742	12 302
31519	Other apparel knitting mills . . . . .	1	11	8	744	14 108	643	1 132	10 466	33 203	77 054	111 340	2 168
315191	Outerwear knitting mills . . . . .	7	7	5	e	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	2	42	24	3 792	67 167	3 006	5 221	46 063	274 786	292 326	571 888	D
31521	Cut & sew apparel contractors . . . . .	5	13	8	741	8 451	625	1 100	6 527	18 406	11 089	29 591	404
315211	Men's & boys' cut & sew apparel contractors . . . . .	5	9	7	680	7 446	573	1 015	5 845	15 335	9 043	24 367	363
31522	Men's & boys' cut & sew apparel mfg . . . . .	1	11	8	2 322	44 168	1 883	3 347	33 543	227 295	239 316	467 843	3 340
315221	Men's & boys' cut & sew underwear & nightwear mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg . . . . .	—	6	4	e	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg . . . . .	9	3	3	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg . . . . .	4	14	8	716	14 383	487	757	5 876	28 754	41 596	73 798	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg . . . . .	1	6	4	314	4 450	260	424	2 939	11 770	15 929	28 675	36
3159	Apparel accessories & other apparel mfg . . . . .	—	14	5	469	9 963	381	774	6 284	22 279	14 961	36 852	D
31599	Apparel accessories & other apparel mfg . . . . .	—	14	5	469	9 963	381	774	6 284	22 279	14 961	36 852	D
315999	Other apparel accessories & other apparel mfg . . . . .	—	8	2	343	6 625	281	585	4 349	17 657	11 496	28 864	D
316	Leather & allied product mfg . . . . .	—	9	2	e	D	D	D	D	D	D	D	D
3162	Footwear mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
31621	Footwear mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	2	167	69	5 006	122 490	4 074	7 526	80 366	237 599	303 381	537 802	23 113
3211	Sawmills & wood preservation . . . . .	—	34	7	497	12 235	407	807	8 746	41 995	71 024	107 196	6 769
32111	Sawmills & wood preservation . . . . .	—	34	7	497	12 235	407	807	8 746	41 995	71 024	107 196	6 769
321113	Sawmills . . . . .	—	29	6	447	10 981	371	730	7 952	35 441	46 387	78 825	6 353



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>GREENSBORO—WINSTON-SALEM—HIGH POINT, NC MSA—Con.</b>													
<b>31-33 Manufacturing—Con.</b>													
321	Wood product mfg—Con.												
3212	Veneer, plywood, & engineered wood product mfg . . . . .	2	44	27	1 928	49 480	1 500	2 851	29 029	80 060	101 858	180 666	5 217
32121	Veneer, plywood, & engineered wood product mfg . . . . .	2	44	27	1 928	49 480	1 500	2 851	29 029	80 060	101 858	180 666	5 217
321211	Hardwood veneer & plywood mfg . . . . .	2	28	16	894	20 183	789	1 514	14 398	34 259	35 553	69 705	2 232
321214	Truss mfg . . . . .	7	8	4	f	D	D	D	D	D	D	D	1 672
321219	Reconstituted wood product mfg . . . . .	—	7	6	470	13 997	347	762	8 475	24 993	42 465	66 190	D
3219	Other wood product mfg . . . . .	2	89	35	2 581	60 775	2 167	3 868	42 591	115 544	130 499	249 940	11 127
32191	Millwork . . . . .	3	41	15	1 354	32 482	1 153	2 134	23 565	65 663	81 610	151 896	8 963
321912	Cut stock, resawing lumber, & planing . . . . .	1	25	6	400	7 860	347	616	6 207	13 652	17 232	30 323	5 379
321918	Other millwork (including flooring) . . . . .	4	11	7	839	22 382	714	1 336	15 842	46 223	43 969	89 923	3 349
32192	Wood container & pallet mfg . . . . .	1	18	7	586	12 861	490	868	8 832	22 146	21 138	42 599	1 319
321920	Wood container & pallet mfg . . . . .	1	18	7	586	12 861	490	868	8 832	22 146	21 138	42 599	1 319
32199	All other wood product mfg . . . . .	1	30	13	641	15 432	524	866	10 194	27 735	27 751	55 445	845
321999	All other miscellaneous wood product mfg . . . . .	2	24	10	433	10 040	358	646	6 555	15 968	11 001	26 929	613
322	Paper mfg . . . . .	1	64	40	4 131	153 434	3 088	6 382	95 203	383 765	526 434	911 152	29 027
3222	Converted paper product mfg . . . . .	1	64	40	4 131	153 434	3 088	6 382	95 203	383 765	526 434	911 152	29 027
32221	Paperboard container mfg . . . . .	—	36	26	2 663	91 482	1 975	4 160	51 718	225 243	278 730	504 082	21 698
322211	Corrugated & solid fiber box mfg . . . . .	—	21	14	1 444	48 067	1 047	2 157	26 548	128 087	163 321	291 847	12 949
322212	Folding paperboard box mfg . . . . .	—	9	7	823	33 184	626	1 399	17 841	73 593	86 980	160 324	D
322214	Fiber can, tube, drum, & similar products mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg . . . . .	—	11	5	883	44 640	655	1 303	31 379	115 420	203 428	318 525	4 915
322225	Laminated aluminum foil mfg for flexible packaging uses . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	7	13	8	512	15 243	390	785	10 204	38 439	39 415	79 091	D
322299	All other converted paper product mfg . . . . .	7	13	8	512	15 243	390	785	10 204	38 439	39 415	79 091	D
323	Printing & related support activities . . . . .	1	279	76	6 404	184 063	4 735	9 148	112 051	456 228	223 156	679 517	39 702
3231	Printing & related support activities . . . . .	1	279	76	6 404	184 063	4 735	9 148	112 051	456 228	223 156	679 517	39 702
32311	Printing . . . . .	—	236	57	5 379	157 411	3 931	7 628	94 761	403 967	213 484	617 127	36 925
323110	Commercial lithographic printing . . . . .	—	114	28	2 698	87 694	1 943	3 781	51 824	194 624	102 285	296 433	27 068
323112	Commercial flexographic printing . . . . .	—	15	6	306	10 689	218	431	4 859	18 638	20 297	38 902	1 302
323113	Commercial screen printing . . . . .	—	32	10	624	16 305	476	773	8 624	52 049	40 331	91 677	3 750
323116	Manifold business form printing . . . . .	2	7	3	622	13 238	430	952	10 609	66 610	19 653	86 704	1 681
323117	Book printing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
32312	Support activities for printing . . . . .	2	43	19	1 025	26 652	804	1 520	17 290	52 261	9 672	62 390	2 777
323121	Tradebinding & related work . . . . .	1	19	10	563	9 560	473	814	6 638	17 299	3 510	20 854	1 604
323122	Prepress services . . . . .	2	24	9	462	17 092	331	706	10 652	34 962	6 162	41 536	1 173
325	Chemical mfg . . . . .	—	84	44	6 890	253 776	4 222	8 489	123 782	2 113 560	1 223 615	3 308 062	93 472
3251	Basic chemical mfg . . . . .	1	10	3	260	11 313	112	253	4 316	39 703	59 909	99 656	4 053
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	—	7	3	e	D	D	D	D	D	D	D	17 353
32521	Resin & synthetic rubber mfg . . . . .	—	6	2	e	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg . . . . .	—	5	2	260	9 717	137	244	5 526	122 914	26 059	150 330	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg.....	1	8	6	1 195	37 430	730	1 776	23 965	416 794	149 346	554 171	9 856
32541	Pharmaceutical & medicine mfg.....	1	8	6	1 195	37 430	730	1 776	23 965	416 794	149 346	554 171	9 856
325412	Pharmaceutical preparation mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg.....	1	15	11	g	D	D	D	D	D	D	D	14 465
32551	Paint & coating mfg.....	—	11	9	1 549	57 007	736	1 538	17 772	164 017	210 782	372 196	D
325510	Paint & coating mfg.....	—	11	9	1 549	57 007	736	1 538	17 772	164 017	210 782	372 196	D
3256	Soap, cleaning compound, & toilet preparation mfg..	—	20	10	1 957	75 018	1 303	2 528	40 441	1 173 017	357 135	1 513 519	34 689
32561	Soap & cleaning compound mfg.....	—	19	9	g	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg.....	—	3	1	e	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg..	—	4	2	e	D	D	D	D	D	D	D	D
325613	Surface active agent mfg.....	—	12	6	e	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg...	—	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg..	—	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg.....	—	21	9	1 392	54 480	996	1 787	26 029	157 810	346 858	507 217	12 789
32599	All other chemical product & preparation mfg.....	—	13	7	1 267	50 850	919	1 632	23 875	146 927	324 068	474 162	12 312
325992	Photographic film, paper, plate, & chemical mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg.....	—	7	4	652	28 369	472	752	10 133	80 245	164 185	238 799	D
326	Plastics & rubber products mfg.....	—	138	74	7 147	179 037	5 786	11 166	118 352	471 313	504 452	974 208	57 693
3261	Plastics product mfg.....	—	116	64	6 428	159 553	5 204	9 996	104 270	415 743	438 549	852 174	39 333
32611	Unsupported plastics film, sheet, & bag mfg..	—	14	9	772	25 307	582	1 358	15 082	61 046	71 464	135 946	4 198
326111	Unsupported plastics bag mfg.....	—	5	4	468	14 482	339	854	8 556	32 730	24 932	57 726	2 281
32614	Polystyrene foam product mfg.....	—	11	4	404	10 599	355	703	8 432	35 712	49 556	85 906	4 795
326140	Polystyrene foam product mfg.....	—	11	4	404	10 599	355	703	8 432	35 712	49 556	85 906	4 795
32615	Urethane & other foam product (except polystyrene) mfg.....	—	23	18	1 715	38 231	1 412	2 585	26 137	84 977	130 808	215 701	5 105
326150	Urethane & other foam product (except polystyrene) mfg.....	—	23	18	1 715	38 231	1 412	2 585	26 137	84 977	130 808	215 701	5 105
32619	Other plastics product mfg.....	—	51	28	3 161	74 474	2 528	4 737	47 512	200 445	141 841	337 151	21 026
326199	All other plastics product mfg.....	—	49	28	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	—	22	10	719	19 484	582	1 170	14 082	55 570	65 903	122 034	18 360
32629	Other rubber product mfg.....	1	14	6	381	10 459	311	555	7 396	35 187	26 512	61 824	D
326299	All other rubber product mfg.....	1	8	4	311	8 483	259	442	6 033	30 295	23 965	54 413	D
327	Nonmetallic mineral product mfg.....	—	95	35	3 883	114 814	3 216	6 394	85 261	354 225	196 372	546 513	51 363
3271	Clay product & refractory mfg.....	—	21	7	818	23 222	621	1 284	15 237	49 464	30 189	79 730	D
32712	Clay building material & refractories mfg.....	—	7	6	670	19 760	501	1 058	12 793	38 544	23 901	63 318	5 383
327122	Ceramic wall & floor tile mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg.....	—	12	5	1 853	57 645	1 638	3 119	45 735	190 629	60 370	250 018	D
32721	Glass & glass product mfg.....	—	12	5	1 853	57 645	1 638	3 119	45 735	190 629	60 370	250 018	D
327212	Other pressed & blown glass & glassware mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	—	11	4	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GREENSBORO-WINSTON-SALEM-HIGH POINT, NC MSA—Con. Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg.....	2	48	19	989	28 083	800	1 653	20 974	74 950	75 145	150 027	7 143
32732	Ready-mix concrete mfg.	2	30	9	475	12 977	416	863	11 019	34 423	42 264	76 692	4 756
327320	Ready-mix concrete mfg.....	2	30	9	475	12 977	416	863	11 019	34 423	42 264	76 692	4 756
32733	Concrete pipe, brick, & block mfg.....	2	11	6	349	10 621	250	532	6 664	28 324	25 039	53 238	1 782
331	Primary metal mfg.....	—	17	10	g	D	D	D	D	D	D	D	7 496
3313	Alumina & aluminum production & processing..	—	2	2	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing.....	—	2	2	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	—	3	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying...	—	1	1	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	—	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries.....	1	11	6	368	10 272	318	650	7 528	23 258	13 359	36 304	1 953
33152	Nonferrous metal foundries.....	1	8	5	338	9 513	289	590	6 873	21 915	12 657	34 264	D
332	Fabricated metal product mfg.....	—	300	98	9 243	260 022	7 066	13 229	170 968	694 183	596 499	1 289 960	37 117
3321	Forging & stamping.....	—	9	5	300	11 242	225	475	7 397	21 297	21 511	42 037	3 660
33211	Forging & stamping.....	—	9	5	300	11 242	225	475	7 397	21 297	21 511	42 037	3 660
332116	Metal stamping.....	—	8	5	e	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg....	—	13	6	320	10 038	231	421	6 019	20 945	9 066	30 189	1 055
33221	Cutlery & handtool mfg. .	—	13	6	320	10 038	231	421	6 019	20 945	9 066	30 189	1 055
3323	Architectural & structural metals mfg.....	—	61	24	2 123	62 503	1 445	2 907	35 754	147 462	183 449	329 547	4 758
33231	Plate work & fabricated structural product mfg..	—	31	14	1 261	39 471	823	1 724	22 424	101 437	146 114	246 777	2 579
332311	Prefabricated metal building & component mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg.....	—	24	11	689	20 044	449	1 003	11 528	65 053	97 840	162 099	1 398
33232	Ornamental & architectural metal products mfg.....	1	30	10	862	23 032	622	1 183	13 330	46 025	37 335	82 770	2 179
332321	Metal window & door mfg.....	—	6	3	351	8 034	243	460	4 272	18 379	19 146	37 256	D
332322	Sheet metal work mfg. .	—	14	5	312	9 133	244	456	5 835	16 587	11 334	27 926	1 358
3324	Boiler, tank, & shipping container mfg.....	—	9	5	415	18 760	335	675	13 514	65 001	100 807	166 246	D
3325	Hardware mfg.....	—	14	7	1 277	27 182	1 043	1 742	20 883	78 701	57 635	135 838	3 914
33251	Hardware mfg.....	—	14	7	1 277	27 182	1 043	1 742	20 883	78 701	57 635	135 838	3 914
332510	Hardware mfg.....	—	14	7	1 277	27 182	1 043	1 742	20 883	78 701	57 635	135 838	3 914
3326	Spring & wire product mfg .	1	17	9	764	14 736	666	1 152	11 515	38 241	50 484	88 206	1 629
33261	Spring & wire product mfg.....	1	17	9	764	14 736	666	1 152	11 515	38 241	50 484	88 206	1 629
332612	Spring (light gauge) mfg.....	1	7	4	443	9 069	369	649	6 794	26 970	35 492	61 661	815
332618	Other fabricated wire product mfg.....	2	10	5	321	5 667	297	503	4 721	11 271	14 992	26 545	814
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	121	25	2 142	63 016	1 701	3 200	43 428	130 722	44 182	174 455	12 225
33271	Machine shops.....	2	108	19	1 532	45 929	1 239	2 241	30 520	79 633	30 544	110 061	8 122
332710	Machine shops.....	2	108	19	1 532	45 929	1 239	2 241	30 520	79 633	30 544	110 061	8 122
33272	Turned product & screw, nut, & bolt mfg.....	—	13	6	610	17 087	462	959	12 908	51 089	13 638	64 394	4 103
332721	Precision turned product mfg.....	—	9	4	e	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg.....	—	4	2	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg.....	—	32	15	1 653	45 146	1 222	2 333	28 286	178 763	125 733	306 702	8 137
33291	Metal valve mfg.....	—	11	9	1 222	32 037	883	1 654	18 728	152 118	100 788	258 114	7 295
332911	Industrial valve mfg....	—	9	8	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	1	21	6	431	13 109	339	679	9 558	26 645	24 945	48 588	842

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GREENSBORO—WINSTON-SALEM—HIGH POINT, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	-	133	52	7 324	271 146	4 820	9 523	148 464	602 636	1 161 508	1 803 738	56 947
3331	Agriculture, construction, & mining machinery mfg. ....	-	8	3	e	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg. ....	-	4	1	e	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg. ....	-	1	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg. ..	-	44	16	1 417	50 311	858	1 666	23 962	109 492	88 179	192 281	D
33321	Sawmill & woodworking machinery mfg. ....	-	10	4	387	12 851	182	358	4 671	30 940	17 369	47 739	D
333210	Sawmill & woodworking machinery mfg. ....	-	10	4	387	12 851	182	358	4 671	30 940	17 369	47 739	D
33329	Other industrial machinery mfg. ....	-	34	12	1 030	37 460	676	1 308	19 291	78 552	70 810	144 542	3 563
333292	Textile machinery mfg. ....	-	22	7	579	20 368	373	730	8 636	49 539	38 525	84 390	2 292
3333	Commercial & service industry machinery mfg. ..	2	7	3	e	D	D	D	D	D	D	D	3 008
33331	Commercial & service industry machinery mfg. ....	2	7	3	e	D	D	D	D	D	D	D	3 008
333319	Other commercial & service industry machinery mfg. ....	1	6	3	285	8 747	143	283	3 192	-5 799	27 611	22 597	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg. ....	-	7	2	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg. ....	-	7	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg. ....	1	34	9	715	23 312	549	996	14 926	54 653	25 183	79 184	5 733
33351	Metalworking machinery mfg. ....	1	34	9	715	23 312	549	996	14 926	54 653	25 183	79 184	5 733
333515	Cutting tool & machine tool accessory mfg. ..	-	3	2	266	7 965	218	340	4 850	23 563	11 163	34 074	D
3336	Engine, turbine, & power transmission equipment mfg. ....	-	3	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg. ....	-	3	1	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg. ....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg. ....	-	30	18	3 263	119 249	1 986	3 957	57 459	321 241	438 554	765 845	15 123
33391	Pump & compressor mfg. ....	-	3	3	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg. ....	-	2	2	f	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg. ....	-	1	1	g	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg. ....	1	7	6	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg. ....	-	20	9	855	27 297	572	1 270	14 778	119 023	49 157	166 611	3 755
333999	All other miscellaneous general-purpose machinery mfg. ....	-	13	6	712	21 692	486	1 054	11 915	106 625	39 103	144 805	3 229
334	Computer & electronic product mfg. ....	-	51	30	6 454	216 781	4 455	8 242	124 819	822 427	443 444	1 239 478	71 598
3344	Semiconductor & other electronic component mfg. ....	-	28	20	5 028	170 176	3 562	6 494	102 786	673 007	375 108	1 016 158	55 832
33441	Semiconductor & other electronic component mfg. ....	-	28	20	5 028	170 176	3 562	6 494	102 786	673 007	375 108	1 016 158	55 832
334413	Semiconductor & related device mfg. ....	-	3	3	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg. ....	-	10	9	h	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg. ....	-	2	2	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg. ....	-	6	4	g	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>GREENSBORO—WINSTON-SALEM—HIGH POINT, NC MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	1	12	7	f	D	D	D	D	D	D	D	12 846
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	1	12	7	f	D	D	D	D	D	D	D	12 846
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	—	38	24	7 564	226 005	6 219	11 775	162 491	910 593	914 632	1 809 351	53 467
3351	Electric lighting equipment mfg . . . . .	—	11	5	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg . . . . .	—	11	5	e	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg . . . . .	—	7	4	286	5 596	230	444	3 677	14 588	6 101	20 520	D
3352	Household appliance mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg . . . . .	—	13	7	1 930	63 546	1 706	3 431	48 556	69 376	259 793	329 468	11 949
33531	Electrical equipment mfg . . . . .	—	13	7	1 930	63 546	1 706	3 431	48 556	69 376	259 793	329 468	11 949
335312	Motor & generator mfg . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg . . . . .	—	7	3	g	D	D	D	D	D	D	D	2 179
3359	Other electrical equipment & component mfg . . . . .	—	12	10	3 966	123 506	3 118	5 929	85 451	659 057	514 073	1 162 860	32 356
33591	Battery mfg . . . . .	—	6	6	h	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	9 005
335912	Primary battery mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	45	17	4 784	172 561	3 768	8 279	123 787	241 880	585 367	798 624	43 796
3362	Motor vehicle body & trailer mfg . . . . .	—	16	4	1 963	63 026	1 523	3 359	51 532	47 087	356 360	390 767	9 296
33621	Motor vehicle body & trailer mfg . . . . .	—	16	4	1 963	63 026	1 523	3 359	51 532	47 087	356 360	390 767	9 296
336211	Motor vehicle body mfg . . . . .	—	8	4	1 922	62 005	1 491	3 295	50 837	45 403	352 588	385 289	9 179
3363	Motor vehicle parts mfg . . . . .	—	19	11	g	D	D	D	D	D	D	D	33 068
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	1	5	3	546	10 682	481	1 138	8 675	36 030	38 145	73 340	836
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	1	5	3	546	10 682	481	1 138	8 675	36 030	38 145	73 340	836
33635	Motor vehicle transmission & power train parts mfg . . . . .	—	3	3	953	52 508	832	1 615	37 929	53 621	112 818	163 558	D
336350	Motor vehicle transmission & power train parts mfg . . . . .	—	3	3	953	52 508	832	1 615	37 929	53 621	112 818	163 558	D
33636	Motor vehicle seating & interior trim mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
3366	Ship & boat building . . . . .	8	3	2	e	D	D	D	D	D	D	D	D
33661	Ship & boat building . . . . .	8	3	2	e	D	D	D	D	D	D	D	D
336611	Ship building & repairing . . . . .	9	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>GREENSBORO—WINSTON-SALEM—HIGH POINT, NC MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	—	347	153	27 799	606 370	23 327	43 449	464 580	1 288 038	1 118 716	2 402 959	52 433
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	234	95	21 285	459 899	18 192	34 066	369 144	996 904	871 777	1 864 765	28 865
33711	Wood kitchen cabinet & counter top mfg .....	—	36	5	994	27 171	823	2 140	21 063	44 616	40 156	84 960	1 845
337110	Wood kitchen cabinet & counter top mfg ...	—	36	5	994	27 171	823	2 140	21 063	44 616	40 156	84 960	1 845
33712	Household & institutional furniture mfg .....	—	198	90	20 291	432 728	17 369	31 926	348 081	952 288	831 621	1 779 805	27 020
337121	Upholstered household furniture mfg .....	—	105	49	8 305	170 023	7 198	12 388	136 712	404 022	411 620	812 381	13 404
337122	Nonupholstered wood household furniture mfg .....	—	70	30	10 447	224 577	8 850	16 637	183 599	481 255	337 433	819 496	11 279
337124	Metal household furniture mfg .....	—	10	5	737	19 300	571	1 296	14 297	34 215	43 771	77 652	1 941
337129	Wood television, radio, & sewing machine cabinet mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	1	93	47	5 650	122 248	4 459	8 122	81 492	228 407	193 766	422 354	18 597
33721	Office furniture (including fixtures) mfg .....	1	93	47	5 650	122 248	4 459	8 122	81 492	228 407	193 766	422 354	18 597
337211	Wood office furniture mfg .....	—	25	22	3 863	82 032	3 003	5 627	53 946	150 271	132 773	283 334	14 238
337214	Office furniture (except wood) mfg .....	6	7	2	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg .....	2	59	23	1 448	32 947	1 203	2 179	22 878	56 531	47 157	103 531	3 492
3379	Other furniture related product mfg .....	—	20	11	864	24 223	676	1 261	13 944	62 727	53 173	115 840	4 971
33791	Mattress mfg .....	—	17	9	780	21 928	639	1 212	12 971	60 646	49 983	110 693	D
337910	Mattress mfg .....	—	17	9	780	21 928	639	1 212	12 971	60 646	49 983	110 693	D
339	Miscellaneous mfg .....	—	150	26	3 220	93 678	2 344	4 542	56 315	285 708	243 640	517 099	23 931
3391	Medical equipment & supplies mfg .....	—	70	7	1 366	40 312	1 122	2 273	29 022	136 034	73 291	204 936	11 914
33911	Medical equipment & supplies mfg .....	—	70	7	1 366	40 312	1 122	2 273	29 022	136 034	73 291	204 936	11 914
339112	Surgical & medical instrument mfg .....	—	8	5	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	80	19	1 854	53 366	1 222	2 269	27 293	149 674	170 349	312 163	12 017
33995	Sign mfg .....	—	37	6	462	11 546	306	527	5 770	25 116	13 604	38 073	1 101
339950	Sign mfg .....	—	37	6	462	11 546	306	527	5 770	25 116	13 604	38 073	1 101
33999	All other miscellaneous mfg .....	—	24	11	1 153	35 681	784	1 579	19 597	116 363	146 908	256 271	10 140
339999	All other miscellaneous mfg .....	—	12	8	977	30 329	671	1 369	17 005	107 118	136 550	236 117	9 394
	<b>GREENVILLE, NC MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>119</b>	<b>50</b>	<b>9 305</b>	<b>280 849</b>	<b>6 985</b>	<b>13 886</b>	<b>174 479</b>	<b>1 707 304</b>	<b>1 027 491</b>	<b>2 741 904</b>	<b>112 077</b>
312	Beverage & tobacco product mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
31221	Tobacco stemming & redrying .....	9	1	1	e	D	D	D	D	D	D	D	D
312210	Tobacco stemming & redrying .....	9	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills .....	—	6	4	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	—	1	1	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	—	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	—	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	12	6	365	4 942	311	593	3 576	8 281	8 910	14 950	D
3152	Cut & sew apparel mfg ....	—	11	6	e	D	D	D	D	D	D	D	D
322	Paper mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GREENVILLE, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg . . . . .	-	4	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	3	14	4		7 711	180	307	4 425	12 772	10 039	22 771	1 678
333	Machinery mfg . . . . .	-	7	5	1 589	49 141	1 299	2 884	35 388	154 076	264 267	414 016	13 504
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg . . . . .	-	1	1	e	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
33392	Material handling equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
334113	Computer terminal mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	8	6	1 114	31 156	825	1 584	19 551	93 650	102 767	191 720	D
3363	Motor vehicle parts mfg . . . . .	-	3	3	626	20 103	427	937	13 551	73 044	56 319	125 289	D
33633	Motor vehicle steering & suspension component (except spring) mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
3366	Ship & boat building . . . . .	1	5	3	488	11 053	398	647	6 000	20 606	46 448	66 431	242
33661	Ship & boat building . . . . .	1	5	3	488	11 053	398	647	6 000	20 606	46 448	66 431	242
336612	Boat building . . . . .	1	5	3	488	11 053	398	647	6 000	20 606	46 448	66 431	242
339	Miscellaneous mfg . . . . .	-	11	2	g	D	D	D	D	D	D	D	1 952
3399	Other miscellaneous mfg . . . . .	-	4	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>HICKORY—MORGANTON—LENOIR, NC MSA</b>												
	<b>Manufacturing . . . . .</b>	-	<b>1 012</b>	<b>516</b>	<b>78 514</b>	<b>1 925 433</b>	<b>66 050</b>	<b>128 025</b>	<b>1 409 200</b>	<b>4 681 888</b>	<b>5 285 089</b>	<b>9 907 714</b>	<b>336 411</b>
311	Food mfg . . . . .	-	11	8	2 241	55 440	1 587	3 447	30 721	168 689	184 539	352 738	7 163
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
31141	Frozen food mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	-	4	3	748	14 971	673	1 506	12 171	39 341	68 297	108 167	D
31161	Animal slaughtering & processing . . . . .	-	4	3	748	14 971	673	1 506	12 171	39 341	68 297	108 167	D
311615	Poultry processing . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	-	2	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>HICKORY-MORGANTON-LENOIR, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
321	Wood product mfg . . . . .	1	112	52	2 837	62 639	2 496	4 570	48 688	114 561	136 908	250 805	8 844
3212	Veneer, plywood, & engineered wood product mfg . . . . .	—	20	18	987	22 167	889	1 685	18 069	38 019	51 454	89 307	2 966
32121	Veneer, plywood, & engineered wood product mfg . . . . .	—	20	18	987	22 167	889	1 685	18 069	38 019	51 454	89 307	2 966
321211	Hardwood veneer & plywood mfg . . . . .	—	13	12	684	15 204	622	1 164	12 575	24 576	39 797	64 307	2 143
3219	Other wood product mfg . . . . .	1	69	33	1 671	36 378	1 452	2 637	27 879	66 514	71 362	137 410	5 458
32191	Millwork . . . . .	2	42	19	1 107	23 529	987	1 757	18 796	37 994	43 149	80 932	3 344
321912	Cut stock, resawing lumber, & planing . . . . .	2	37	18	1 035	22 232	924	1 665	17 757	36 074	41 080	76 943	3 302
32199	All other wood product mfg . . . . .	—	18	8	368	8 750	314	579	6 315	22 500	17 523	39 852	1 364
321999	All other miscellaneous wood product mfg . . . . .	—	18	8	368	8 750	314	579	6 315	22 500	17 523	39 852	1 364
322	Paper mfg . . . . .	1	19	15	1 879	58 077	1 567	3 310	41 149	143 667	199 163	341 371	25 702
3222	Converted paper product mfg . . . . .	1	18	14	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	1	12	9	1 097	35 723	870	1 915	24 012	83 094	101 089	180 379	20 405
322211	Corrugated & solid fiber box mfg . . . . .	—	6	6	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box mfg . . . . .	3	4	2	415	14 553	359	850	11 980	39 918	50 159	86 316	D
32222	Paper bag & coated & treated paper mfg . . . . .	—	3	3	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 . . . . .	—	46	10	1 415	46 921	1 118	2 088	36 025	83 284	59 705	143 714	3 762
3231	Printing & related support activities . . . . .	—	46	10	1 415	46 921	1 118	2 088	36 025	83 284	59 705	143 714	3 762
32311	Printing . . . . .	—	39	8	1 330	45 386	1 054	1 982	34 822	78 227	58 793	137 741	3 720
323110	Commercial lithographic printing . . . . .	1	25	5	374	12 761	285	552	10 275	24 858	21 184	45 358	D
323111	Commercial gravure printing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
323113	Commercial screen printing . . . . .	—	4	1	e	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	—	26	9	722	24 912	381	720	11 223	105 987	94 739	199 725	8 261
326	Plastics & rubber products mfg . . . . .	—	56	40	4 240	105 425	3 347	5 764	66 888	334 479	363 827	698 014	37 288
3261	Plastics product mfg . . . . .	—	46	37	3 707	91 890	2 928	4 882	59 825	303 871	334 383	638 730	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	—	4	3	373	11 640	214	358	7 429	70 960	45 680	116 988	2 471
32615	Urethane & other foam product (except polystyrene) mfg . . . . .	—	24	23	1 862	42 550	1 663	2 692	31 038	110 617	158 908	269 818	13 858
326150	Urethane & other foam product (except polystyrene) mfg . . . . .	—	24	23	1 862	42 550	1 663	2 692	31 038	110 617	158 908	269 818	13 858
32619	Other plastics product mfg . . . . .	—	15	10	1 407	36 600	998	1 766	20 585	118 886	125 406	243 952	10 717
326199	All other plastics product mfg . . . . .	—	15	10	1 407	36 600	998	1 766	20 585	118 886	125 406	243 952	10 717
3262	Rubber product mfg . . . . .	—	10	3	533	13 535	419	882	7 063	30 608	29 444	59 284	D
32629	Other rubber product mfg . . . . .	—	6	3	511	13 042	398	842	6 587	29 632	28 325	57 181	D
326299	All other rubber product mfg . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	32	11	1 690	48 807	1 342	2 756	32 813	131 471	75 940	202 176	30 573
3272	Glass & glass product mfg . . . . .	—	5	5	1 025	29 429	871	1 827	22 755	71 538	44 362	111 042	D
32721	Glass & glass product mfg . . . . .	—	5	5	1 025	29 429	871	1 827	22 755	71 538	44 362	111 042	D
327215	Glass product mfg made of purchased glass . . . . .	—	5	5	1 025	29 429	871	1 827	22 755	71 538	44 362	111 042	D
3273	Cement & concrete product mfg . . . . .	2	20	3	276	9 057	215	403	4 724	19 835	18 081	37 702	1 844
3279	Other nonmetallic mineral product mfg . . . . .	—	6	2	e	D	D	D	D	D	D	D	D
32791	Abrasive product mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
327910	Abrasive product mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>HICKORY—MORGANTON—LENOIR, NC MSA—Con.</b> <b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	-	69	20	2 162	55 789	1 730	3 195	38 560	175 744	105 188	255 044	12 028
3322	Cutlery & handtool mfg ....	-	6	4	324	9 765	252	500	6 089	18 214	12 446	30 886	712
33221	Cutlery & handtool mfg ..	-	6	4	324	9 765	252	500	6 089	18 214	12 446	30 886	712
332212	Hand & edge tool mfg .	-	4	3	e	D	D	D	D	D	D	D	D
3325	Hardware mfg .....	1	3	1	e	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	1	3	1	e	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	1	3	1	e	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	-	5	2	558	11 605	512	875	8 965	22 913	27 926	50 767	1 111
33261	Spring & wire product mfg .....	-	5	2	558	11 605	512	875	8 965	22 913	27 926	50 767	1 111
332612	Spring (light gauge) mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg .....	-	6	3	373	11 562	267	600	8 520	84 587	25 833	83 967	D
33299	All other fabricated metal product mfg .....	-	6	3	373	11 562	267	600	8 520	84 587	25 833	83 967	D
332991	Ball & roller bearing mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg .....	1	35	8	1 168	37 546	898	1 834	24 610	76 620	101 715	179 290	7 030
3339	Other general-purpose machinery mfg .....	-	9	3	582	20 210	484	1 155	14 712	45 399	64 952	110 124	3 415
33392	Material handling equipment mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	2	13	8	856	19 754	599	1 021	10 106	110 737	75 926	184 415	3 012
3342	Communications equipment mfg .....	4	5	4	f	D	D	D	D	D	D	D	2 316
33429	Other communications equipment mfg .....	9	3	2	e	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	9	3	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	17	9	6 528	194 544	5 247	11 209	136 832	560 437	954 869	1 497 438	58 085
3351	Electric lighting equipment mfg .....	-	4	1	302	5 963	278	623	3 810	12 122	13 048	24 619	D
33512	Lighting fixture mfg .....	-	4	1	302	5 963	278	623	3 810	12 122	13 048	24 619	D
335121	Residential electric lighting fixture mfg ...	-	4	1	302	5 963	278	623	3 810	12 122	13 048	24 619	D
3359	Other electrical equipment & component mfg .....	-	10	7	6 188	186 571	4 940	10 529	132 242	544 046	939 859	1 466 574	57 492
33592	Communication & energy wire & cable mfg .....	-	4	4	4 032	131 981	3 185	6 709	90 052	450 956	842 394	1 275 281	48 636
335921	Fiber optic cable mfg...	-	3	3	g	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	12	5	1 267	44 210	1 002	2 115	32 264	97 352	311 735	407 301	14 426
3363	Motor vehicle parts mfg ...	-	7	4	1 164	40 726	913	1 968	29 548	89 862	306 652	395 102	14 297
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
33635	Motor vehicle transmission & power train parts mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	-	2	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>HICKORY—MORGANTON—LENOIR, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	-	301	170	31 666	725 435	27 685	52 588	568 904	1 510 870	1 340 425	2 856 373	52 242
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	226	138	29 556	682 333	25 836	49 238	535 399	1 438 542	1 276 448	2 720 582	48 674
33712	Household & institutional furniture mfg .....	-	218	137	29 495	680 994	25 791	49 159	534 425	1 436 451	1 274 471	2 716 444	48 439
337121	Upholstered household furniture mfg .....	1	140	93	16 168	389 519	13 793	25 502	295 959	757 834	774 775	1 526 796	20 069
337122	Nonupholstered wood household furniture mfg .....	-	59	37	12 764	282 019	11 551	22 882	231 319	649 814	478 124	1 139 692	27 297
3372	Office furniture (including fixtures) mfg .....	1	72	31	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg .....	1	72	31	g	D	D	D	D	D	D	D	D
337211	Wood office furniture mfg .....	-	8	5	649	14 209	550	972	10 614	29 618	21 777	51 207	1 512
337215	Showcase, partition, shelving, & locker mfg .....	1	61	26	1 377	27 063	1 229	2 247	21 508	41 558	35 690	76 930	2 022
339	Miscellaneous mfg .....	-	27	7	706	16 912	535	1 080	10 449	60 096	42 495	107 838	D
3391	Medical equipment & supplies mfg .....	-	18	4	506	12 082	374	746	7 371	48 639	37 267	91 153	1 162
33911	Medical equipment & supplies mfg .....	-	18	4	506	12 082	374	746	7 371	48 639	37 267	91 153	1 162
339113	Surgical appliance & supplies mfg .....	-	7	3	e	D	D	D	D	D	D	D	1 017
	<b>JACKSONVILLE, NC MSA</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>37</b>	<b>12</b>	<b>1 829</b>	<b>37 731</b>	<b>1 554</b>	<b>3 169</b>	<b>29 201</b>	<b>169 443</b>	<b>180 009</b>	<b>346 411</b>	<b>D</b>
311	Food mfg .....	1	3	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	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
315	Apparel mfg .....	-	5	3	338	4 142	297	537	3 331	6 878	5 146	11 920	D
3152	Cut & sew apparel mfg .....	-	5	3	338	4 142	297	537	3 331	6 878	5 146	11 920	D
333	Machinery mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	2	1	e	D	D	D	D	D	D	D	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
	<b>NORFOLK—VIRGINIA BEACH—NEWPORT NEWS, VA—NC MSA</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>1 043</b>	<b>294</b>	<b>62 701</b>	<b>2 066 784</b>	<b>47 989</b>	<b>95 591</b>	<b>1 375 411</b>	<b>7 873 317</b>	<b>8 913 554</b>	<b>16 721 023</b>	<b>386 837</b>
	Norfolk—Virginia Beach—Newport News, VA—NC MSA (VA Part) .....	-	1 027	292	62 589	2 064 243	47 903	95 463	1 373 749	7 866 784	8 906 696	16 708 787	D
311	Food mfg .....	-	88	34	8 371	199 405	6 372	12 649	132 393	1 484 007	1 555 991	3 021 157	28 421
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
3116	Meat product mfg .....	-	18	9	i	D	D	D	D	D	D	D	9 528
31161	Animal slaughtering & processing .....	-	18	9	i	D	D	D	D	D	D	D	9 528
311611	Animal (except poultry) slaughtering .....	-	5	2	h	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	10	6	1 002	24 246	778	1 761	17 215	85 507	138 477	223 562	D
3117	Seafood product preparation & packaging ..	1	14	5	323	7 332	173	295	3 070	17 924	44 758	62 681	1 167
31171	Seafood product preparation & packaging ..	1	14	5	323	7 332	173	295	3 070	17 924	44 758	62 681	1 167
311712	Fresh & frozen seafood processing ..	1	12	5	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	33	8	1 133	24 413	646	1 040	10 734	69 270	42 140	111 501	3 571
31181	Bread & bakery product mfg .....	-	31	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	12	7	860	20 108	433	751	7 684	61 260	36 456	97 758	3 153

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
311	Food mfg—Con.												
3119	Other food mfg . . . . .	—	10	5	g	D	D	D	D	D	D	D	D
31191	Snack food mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg . . . . .	—	9	4	g	D	D	D	D	D	D	D	D
3121	Beverage mfg . . . . .	—	9	4	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg . . . . .	—	5	3	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
31212	Breweries . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
312120	Breweries . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	1	10	3		6 309	291	548	4 849	10 784	6 509	16 934	D
314	Textile product mills . . . . .	1	41	8		9 149	391	636	5 335	16 744	17 277	33 519	D
3149	Other textile product mills . . . . .	3	25	6		6 043	218	357	3 375	9 071	8 947	18 177	D
315	Apparel mfg . . . . .	1	19	6		5 424	322	590	3 569	14 345	9 844	21 803	1 281
321	Wood product mfg . . . . .	—	39	15		22 662	767	1 565	15 914	64 087	141 241	204 437	4 552
3211	Sawmills & wood preservation . . . . .	—	7	4		8 810	303	713	6 964	32 205	55 356	87 867	2 456
32111	Sawmills & wood preservation . . . . .	—	7	4		8 810	303	713	6 964	32 205	55 356	87 867	2 456
321113	Sawmills . . . . .	—	5	4	e	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg . . . . .	—	8	4		7 506	200	373	4 196	17 812	62 892	79 578	699
32121	Veneer, plywood, & engineered wood product mfg . . . . .	—	8	4		7 506	200	373	4 196	17 812	62 892	79 578	699
3219	Other wood product mfg . . . . .	2	24	7		6 346	264	479	4 754	14 070	22 993	36 992	1 397
322	Paper mfg . . . . .	3	11	8		29 482	684	1 323	17 353	88 372	100 787	187 104	5 907
3222	Converted paper product mfg . . . . .	3	11	8		29 482	684	1 323	17 353	88 372	100 787	187 104	5 907
32221	Paperboard container mfg . . . . .	5	7	5	f	D	D	D	D	D	D	D	D
322212	Folding paperboard box mfg . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	4	152	18		44 671	1 173	2 163	25 716	96 726	85 937	182 676	16 452
3231	Printing & related support activities . . . . .	4	152	18		44 671	1 173	2 163	25 716	96 726	85 937	182 676	16 452
32311	Printing . . . . .	4	143	18		43 863	1 136	2 120	25 138	95 152	85 560	180 725	D
323110	Commercial lithographic printing . . . . .	5	73	9		26 811	625	1 207	14 721	59 625	46 836	106 403	12 128
325	Chemical mfg . . . . .	—	35	9		29 387	462	859	16 062	59 891	277 496	332 291	11 577
326	Plastics & rubber products mfg . . . . .	2	38	17		35 069	988	1 806	20 680	80 356	105 565	185 525	4 767
3261	Plastics product mfg . . . . .	2	28	14		26 386	768	1 376	14 708	52 965	69 836	122 880	3 565
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	2	6	4		10 397	236	388	4 903	9 519	15 432	25 009	872
32619	Other plastics product mfg . . . . .	2	16	7		12 370	343	646	6 757	32 826	45 631	78 661	1 742
326199	All other plastics product mfg . . . . .	1	13	6		11 484	304	582	6 104	30 647	43 844	74 688	1 655
3262	Rubber product mfg . . . . .	—	10	3		8 683	220	430	5 972	27 391	35 729	62 645	1 202
32629	Other rubber product mfg . . . . .	—	6	3		8 343	203	411	5 702	26 626	34 864	61 009	1 149
326299	All other rubber product mfg . . . . .	—	4	3	e	D	D	D	D	D	D	D	D

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[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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg . . . . .	1	58	23	2 105	65 600	1 459	3 119	39 482	191 352	190 145	379 128	19 471
3271	Clay product & refractory mfg . . . . .	5	5	2	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg . . . . .	—	9	3	536	16 584	417	929	11 137	52 576	45 159	95 681	3 399
32721	Glass & glass product mfg . . . . .	—	9	3	536	16 584	417	929	11 137	52 576	45 159	95 681	3 399
327215	Glass product mfg made of purchased glass . . . . .	—	7	2	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg . . . . .	2	36	14	738	22 941	552	1 160	14 989	64 191	57 119	121 399	8 249
32732	Ready-mix concrete mfg . . . . .	1	17	7	391	13 539	304	619	9 266	38 614	38 983	77 496	7 349
327320	Ready-mix concrete mfg . . . . .	1	17	7	391	13 539	304	619	9 266	38 614	38 983	77 496	7 349
3279	Other nonmetallic mineral product mfg . . . . .	1	7	3	370	11 496	255	512	6 440	32 825	32 216	64 682	1 954
32791	Abrasive product mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
327910	Abrasive product mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg . . . . .	—	13	3	1 435	43 278	1 172	2 088	31 173	133 285	96 862	223 533	5 790
3315	Foundries . . . . .	—	8	2	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries . . . . .	—	4	1	g	D	D	D	D	D	D	D	D
331528	Other nonferrous foundries (except die-casting) . . . . .	—	2	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	155	40	2 910	89 922	2 224	4 052	60 087	212 332	219 517	417 714	18 788
3323	Architectural & structural metals mfg . . . . .	1	53	19	1 315	38 195	975	1 771	22 346	69 236	71 923	138 311	6 394
33231	Plate work & fabricated structural product mfg . . . . .	1	24	13	822	23 264	597	1 028	13 083	40 722	52 063	90 913	1 516
332312	Fabricated structural metal mfg . . . . .	1	15	8	439	11 606	308	505	6 296	23 651	34 931	58 363	512 968
332313	Plate work mfg . . . . .	—	6	4	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg . . . . .	1	29	6	493	14 931	378	743	9 263	28 514	19 860	47 398	4 878
332322	Sheet metal work mfg . . . . .	—	21	6	463	14 284	357	709	8 888	27 229	18 432	44 676	4 819
3324	Boiler, tank, & shipping container mfg . . . . .	—	6	4	375	18 959	315	663	15 402	64 022	121 689	177 863	D
33243	Metal can, box, & other metal container (light gauge) mfg . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
332431	Metal can mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	61	11	821	20 275	621	1 023	14 133	50 265	11 026	60 608	3 668
33271	Machine shops . . . . .	2	56	7	463	13 317	346	620	8 881	26 664	7 835	33 918	1 711
332710	Machine shops . . . . .	2	56	7	463	13 317	346	620	8 881	26 664	7 835	33 918	1 711
33272	Turned product & screw, nut, & bolt mfg . . . . .	—	5	4	358	6 958	275	403	5 252	23 601	3 191	26 690	1 957
333	Machinery mfg . . . . .	—	67	31	4 263	143 146	2 731	5 423	73 880	361 506	642 196	990 931	41 638
3331	Agriculture, construction, & mining machinery mfg . . . . .	—	7	4	1 153	37 015	765	1 438	21 293	140 601	285 268	427 670	11 066
33311	Agricultural implement mfg . . . . .	—	5	3	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
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
3332	Industrial machinery mfg . . . . .	—	6	2	264	9 773	184	380	6 017	15 794	26 546	48 199	D
33329	Other industrial machinery mfg . . . . .	—	6	2	264	9 773	184	380	6 017	15 794	26 546	48 199	D
3333	Commercial & service industry machinery mfg . . . . .	—	10	5	578	24 093	442	937	12 333	33 776	113 570	146 420	D
33331	Commercial & service industry machinery mfg . . . . .	—	10	5	578	24 093	442	937	12 333	33 776	113 570	146 420	D
333315	Photographic & photocopying equipment mfg . . . . .	—	4	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>31-33</b>	<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC MSA—Con.</b>													
	<b>Manufacturing—Con.</b>													
333	Machinery mfg—Con.													
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	7	7	2	e	D	D	D	D	D	D	D	634	
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	7	7	2	e	D	D	D	D	D	D	D	634	
3335	Metalworking machinery mfg .....	1	13	7		610	22 127	397	889	11 982	48 354	20 849	65 713	5 353
33351	Metalworking machinery mfg .....	1	13	7		610	22 127	397	889	11 982	48 354	20 849	65 713	5 353
333514	Special die & tool, die set, jig, & fixture mfg .	2	6	3		328	11 008	207	449	5 863	20 833	8 203	28 980	3 042
3336	Engine, turbine, & power transmission equipment mfg .....	—	4	1	e	D	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	4	1	e	D	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg ....	—	1	1	e	D	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	1	20	10		1 027	34 580	619	1 177	15 812	68 326	103 033	171 068	3 916
33391	Pump & compressor mfg .....	—	7	3	e	D	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg .....	—	4	1	e	D	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	2	7	4		359	10 629	227	380	4 999	20 040	16 226	36 744	877
334	Computer & electronic product mfg .....	—	45	13		4 869	128 393	3 468	6 706	77 337	282 137	973 818	1 254 808	44 027
3341	Computer & peripheral equipment mfg .....	—	3	3	h	D	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	3	3	h	D	D	D	D	D	D	D	D	D
334111	Electronic computer mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	2	2	g	D	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	1	12	1	e	D	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	1	12	1	e	D	D	D	D	D	D	D	D	D
334415	Electronic resistor mfg .....	—	1	1	e	D	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	2	17	6		961	23 818	607	1 326	13 520	44 128	27 888	72 747	1 892
33451	Navigational, measuring, medical, & control instruments mfg .....	2	17	6		961	23 818	607	1 326	13 520	44 128	27 888	72 747	1 892
334511	Search, detection, navigation, & guidance instrument mfg .....	—	4	3	f	D	D	D	D	D	D	D	D	348
335	Electrical equipment, appliance, & component mfg .....	1	18	7		773	23 366	501	985	10 630	59 358	89 713	149 807	4 300
3353	Electrical equipment mfg ..	2	10	3		479	17 082	253	544	6 183	44 982	33 105	78 809	2 739
33531	Electrical equipment mfg .....	2	10	3		479	17 082	253	544	6 183	44 982	33 105	78 809	2 739
335314	Relay & industrial control mfg .....	—	6	2		399	14 331	200	399	4 148	37 497	25 864	63 804	2 407
3359	Other electrical equipment & component mfg .....	—	6	3	e	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	57	27		26 251	1 036 305	21 753	45 033	741 901	3 868 203	3 551 830	7 426 715	122 383
3361	Motor vehicle mfg .....	—	2	1	g	D	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	D
336112	Light truck & utility vehicle mfg .....	—	2	1	g	D	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>31-33</b>	<b>NORFOLK-VIRGINIA BEACH-NEWPORT NEWS, VA-NC MSA—Con.</b>													
	<b>Manufacturing—Con.</b>													
336	Transportation equipment mfg—Con.													
3363	Motor vehicle parts mfg ...	-	14	5	g	D	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	5	2	g	D	D	D	D	D	D	D	D	
336312	Gasoline engine & engine parts mfg ....	-	5	2	g	D	D	D	D	D	D	D	D	
33632	Motor vehicle electrical & electronic equipment mfg .....	1	5	3	e	D	D	D	D	D	D	D	D	
3366	Ship & boat building .....	-	36	20	j	D	D	D	D	D	D	D	43 955	
33661	Ship & boat building ....	-	36	20	j	D	D	D	D	D	D	D	43 955	
336611	Ship building & repairing .....	-	28	17	j	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg .....	4	78	7		728	15 875	598	1 038	10 675	28 640	24 877	53 596	1 412
3371	Household & institutional furniture & kitchen cabinet mfg .....	4	62	5	f		D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg .....	3	43	4		372	8 653	305	604	6 012	14 622	10 783	25 446	D
337110	Wood kitchen cabinet & counter top mfg ...	3	43	4		372	8 653	305	604	6 012	14 622	10 783	25 446	D
339	Miscellaneous mfg .....	1	105	20		2 232	54 686	1 706	2 982	31 728	112 877	78 229	189 226	5 269
3391	Medical equipment & supplies mfg .....	3	44	7		551	16 237	360	667	8 331	22 216	11 194	32 719	3 342
33911	Medical equipment & supplies mfg .....	3	44	7		551	16 237	360	667	8 331	22 216	11 194	32 719	3 342
3399	Other miscellaneous mfg ..	-	61	13		1 681	38 449	1 346	2 315	23 397	90 661	67 035	156 507	1 927
33995	Sign mfg .....	2	28	4		322	8 872	221	432	4 847	15 317	9 900	24 625	322
339950	Sign mfg .....	2	28	4		322	8 872	221	432	4 847	15 317	9 900	24 625	322
33999	All other miscellaneous mfg .....	-	11	6		1 108	25 058	946	1 595	15 559	65 415	47 087	111 144	1 362
339991	Gasket, packing, & sealing device mfg...	-	5	4	e		D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	-	6	2	f		D	D	D	D	D	D	D	D
	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>1 143</b>	<b>355</b>		<b>72 443</b>	<b>2 263 538</b>	<b>39 693</b>	<b>74 453</b>	<b>939 773</b>	<b>10 479 080</b>	<b>14 179 036</b>	<b>24 866 965</b>	<b>494 599</b>
311	Food mfg .....	-	62	21		5 066	116 814	4 214	7 630	83 917	265 727	657 338	921 169	33 221
3116	Meat product mfg .....	-	11	7		2 937	59 823	2 408	4 579	41 539	97 808	224 275	323 047	19 046
31161	Animal slaughtering & processing .....	-	11	7		2 937	59 823	2 408	4 579	41 539	97 808	224 275	323 047	19 046
311612	Meat processed from carcasses .....	-	3	3		791	18 089	518	940	9 422	41 592	55 582	97 893	D
311615	Poultry processing ....	-	4	3	g		D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg ....	-	22	4	g		D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	4	1	g		D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	-	3	1	g		D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	-	10	5		1 018	28 004	637	1 152	13 729	272 804	251 534	526 782	7 637
3121	Beverage mfg .....	-	8	3	e		D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	-	4	3	e		D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	-	2	2	e		D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	-	2	2	f		D	D	D	D	D	D	D	D
31221	Tobacco stemming & redrying .....	-	1	1	e		D	D	D	D	D	D	D	D
312210	Tobacco stemming & redrying .....	-	1	1	e		D	D	D	D	D	D	D	D
31222	Tobacco product mfg ...	-	1	1	e		D	D	D	D	D	D	D	D
312221	Cigarette mfg .....	-	1	1	e		D	D	D	D	D	D	D	D

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<b>31-33</b>	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
313	Textile mills .....	2	22	10	2 800	88 559	2 035	3 609	56 572	207 048	258 977	465 747	28 864
3131	Fiber, yarn, & thread mills .	4	3	3	500	11 895	436	665	8 971	39 100	42 667	83 526	3 123
31311	Fiber, yarn, & thread mills .....	4	3	3	500	11 895	436	665	8 971	39 100	42 667	83 526	3 123
313111	Yarn spinning mills ...	—	2	2	e	D	D	D	D	D	D	D	D
3132	Fabric mills .....	2	9	5	2 015	70 289	1 389	2 463	42 806	151 745	188 171	337 618	25 307
31321	Broadwoven fabric mills .	9	4	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	9	4	2	f	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills ...	—	4	3	g	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .	—	4	3	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	2	10	2	285	6 375	210	481	4 795	16 203	28 139	44 603	434
31331	Textile & fabric finishing mills .....	2	10	2	285	6 375	210	481	4 795	16 203	28 139	44 603	434
314	Textile product mills .....	6	24	3	1 411	24 846	1 072	2 162	15 272	38 875	8 401	47 095	D
3141	Textile furnishings mills....	9	12	1	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills....	9	9	1	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	9	9	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	1	31	22	2 514	40 791	2 250	3 509	32 044	80 138	68 456	146 387	1 131
3151	Apparel knitting mills .....	—	7	4	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	—	4	3	878	15 969	822	1 633	14 070	30 200	47 484	75 848	D
315111	Sheer hosiery mills .....	—	4	3	878	15 969	822	1 633	14 070	30 200	47 484	75 848	D
3152	Cut & sew apparel mfg ....	3	19	16	1 502	22 428	1 309	1 642	16 252	46 256	16 930	62 985	719
31521	Cut & sew apparel contractors .....	1	9	6	716	8 062	699	707	7 758	14 142	976	14 870	199
315212	Women's, girls', & infants' cut & sew apparel contractors ..	1	9	6	716	8 062	699	707	7 758	14 142	976	14 870	199
31522	Men's & boys' cut & sew apparel mfg .....	2	5	5	387	8 514	308	581	4 895	21 721	4 859	26 736	318
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	—	4	4	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	70	37	2 588	68 066	2 128	4 369	47 168	147 383	197 156	345 284	27 719
3211	Sawmills & wood preservation .....	1	21	13	657	19 510	524	1 069	13 645	45 797	69 799	116 320	11 884
32111	Sawmills & wood preservation .....	1	21	13	657	19 510	524	1 069	13 645	45 797	69 799	116 320	11 884
321113	Sawmills .....	1	18	11	584	18 065	462	941	12 684	42 088	64 973	107 953	11 733
3212	Veneer, plywood, & engineered wood product mfg .....	2	13	11	957	26 995	803	1 790	19 138	60 738	66 607	126 402	13 835
32121	Veneer, plywood, & engineered wood product mfg .....	2	13	11	957	26 995	803	1 790	19 138	60 738	66 607	126 402	13 835
321211	Hardwood veneer & plywood mfg .....	—	4	4	e	D	D	D	D	D	D	D	D
321214	Truss mfg .....	6	6	4	320	9 162	244	523	5 383	18 272	23 612	41 905	D
321219	Reconstituted wood product mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	3	36	13	974	21 561	801	1 510	14 385	40 848	60 750	102 562	2 000
32191	Millwork .....	4	17	7	347	6 949	275	525	5 142	13 905	25 578	40 222	662
32199	All other wood product mfg .....	3	14	4	480	10 246	400	741	6 985	21 308	29 440	50 991	1 098
322	Paper mfg .....	1	13	10	1 039	34 612	844	1 782	25 113	104 166	139 455	243 252	7 728
3222	Converted paper product mfg .....	1	13	10	1 039	34 612	844	1 782	25 113	104 166	139 455	243 252	7 728
32221	Paperboard container mfg .....	1	10	9	873	30 504	733	1 564	22 851	93 389	118 218	211 227	6 717
322211	Corrugated & solid fiber box mfg .....	2	5	5	303	11 154	227	523	6 699	26 507	40 164	65 811	D
322212	Folding paperboard box mfg .....	4	3	3	e	D	D	D	D	D	D	D	1 328
322215	Nonfolding sanitary food container mfg ...	—	1	1	e	D	D	D	D	D	D	D	D



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<b>31-33</b>	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
323	Printing & related support activities .....	1	191	26	2 907	88 701	2 226	4 265	58 331	228 077	188 534	429 622	13 027
3231	Printing & related support activities .....	1	191	26	2 907	88 701	2 226	4 265	58 331	228 077	188 534	429 622	13 027
32311	Printing .....	1	169	24	2 765	84 291	2 108	4 041	55 089	219 666	187 086	419 692	12 721
323110	Commercial lithographic printing ..	1	86	15	1 408	47 120	1 084	2 212	33 520	155 841	133 773	288 698	5 712
323113	Commercial screen printing .....	2	26	3	414	8 576	329	489	5 749	3 290	18 272	36 512	1 018
323117	Book printing .....	—	4	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg .....	—	49	24	5 640	236 491	3 443	6 839	111 378	4 378 292	2 368 095	6 634 459	90 494
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	—	3	3	1 211	40 143	937	1 796	28 023	176 314	116 108	299 233	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
3254	Pharmaceutical & medicine mfg .....	—	19	12	3 679	164 571	1 984	4 000	67 736	4 047 623	2 127 630	6 057 670	74 948
32541	Pharmaceutical & medicine mfg .....	—	19	12	3 679	164 571	1 984	4 000	67 736	4 047 623	2 127 630	6 057 670	74 948
325411	Medicinal & botanical mfg .....	—	3	3	847	38 983	649	1 389	24 984	119 697	127 930	261 815	D
325412	Pharmaceutical preparation mfg .....	—	10	6	g	D	D	D	D	D	D	D	32 533
325413	In-vitro diagnostic substance mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg .....	9	5	2	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	—	13	3	499	21 955	372	737	10 749	137 054	104 949	241 067	2 543
32599	All other chemical product & preparation mfg .....	—	12	3	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg .....	—	9	2	e	D	D	D	D	D	D	D	2 404
326	Plastics & rubber products mfg .....	—	35	20	2 501	76 263	1 767	3 531	38 633	291 823	154 416	442 675	15 072
3261	Plastics product mfg .....	—	31	20	2 488	76 048	1 757	3 516	38 470	291 379	153 950	441 760	15 044
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	—	22	16	1 386	35 768	1 134	2 081	21 692	107 255	68 860	175 329	10 849
326199	All other plastics product mfg .....	—	21	16	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	1	68	17	1 307	38 017	1 055	2 160	27 564	134 482	115 120	251 068	23 190
3271	Clay product & refractory mfg .....	—	10	4	295	7 632	240	463	5 404	23 713	9 442	34 311	D
32712	Clay building material & refractories mfg .....	—	5	4	e	D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg .....	—	4	4	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .....	—	8	2	316	10 047	234	497	6 757	40 399	28 670	68 798	D
327215	Glass & glass product mfg .....	—	8	2	316	10 047	234	497	6 757	40 399	28 670	68 798	D
327215	Glass product mfg made of purchased glass .....	—	5	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg .....	1	45	10	647	18 985	544	1 123	14 427	64 691	73 476	138 725	10 246
32732	Ready-mix concrete mfg .....	2	34	4	375	10 673	363	771	10 380	41 349	49 574	91 645	8 834
327320	Ready-mix concrete mfg .....	2	34	4	375	10 673	363	771	10 380	41 349	49 574	91 645	8 834

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	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg . . . . .	-	120	35	3 703	120 089	2 798	5 851	73 662	299 181	202 132	500 708	29 562
3321	Forging & stamping . . . . .	-	5	4	393	17 211	256	627	8 137	43 602	32 362	74 790	8 340
33211	Forging & stamping . . . . .	-	5	4	393	17 211	256	627	8 137	43 602	32 362	74 790	8 340
3322	Cutlery & handtool mfg . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg . . . . .	-	32	12	1 142	36 260	889	1 914	22 978	73 144	67 461	140 064	6 445
33232	Ornamental & architectural metal products mfg . . . . .	-	24	8	967	30 155	764	1 656	19 508	60 070	48 152	108 003	5 551
332322	Sheet metal work mfg . . . . .	-	16	8	926	29 303	738	1 621	19 013	58 280	47 251	105 302	5 488
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	-	47	7	707	18 323	556	1 057	12 676	33 802	34 823	68 395	D
33271	Machine shops . . . . .	1	44	6	593	15 988	479	935	10 605	30 173	30 922	60 934	4 450
332710	Machine shops . . . . .	1	44	6	593	15 988	479	935	10 605	30 173	30 922	60 934	4 450
3328	Coating, engraving, heat treating, & allied activities . . . . .	-	12	5	268	8 168	223	505	5 712	21 585	9 460	32 059	D
33281	Coating, engraving, heat treating, & allied activities . . . . .	-	12	5	268	8 168	223	505	5 712	21 585	9 460	32 059	D
3329	Other fabricated metal product mfg . . . . .	-	14	5	654	22 125	422	847	10 956	76 461	36 705	113 297	6 536
33291	Metal valve mfg . . . . .	-	5	4	556	19 317	352	714	9 275	70 793	32 129	102 630	6 160
333	Machinery mfg . . . . .	-	61	22	2 671	90 814	1 705	3 429	46 134	368 686	389 402	749 494	27 499
3331	Agriculture, construction, & mining machinery mfg . . . . .	-	4	4	f	D	D	D	D	D	D	D	9 856
33312	Construction machinery mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	9 856
333120	Construction machinery mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	9 856
3332	Industrial machinery mfg . . . . .	-	16	4	416	16 487	255	505	8 582	43 319	20 774	63 337	2 889
33329	Other industrial machinery mfg . . . . .	-	16	4	416	16 487	255	505	8 582	43 319	20 774	63 337	2 889
3333	Commercial & service industry machinery mfg . . . . .	-	8	4	400	13 699	249	497	6 315	76 642	44 073	106 763	D
33331	Commercial & service industry machinery mfg . . . . .	-	8	4	400	13 699	249	497	6 315	76 642	44 073	106 763	D
333319	Other commercial & service industry machinery mfg . . . . .	-	5	2	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	5	3	474	7 203	426	806	5 836	19 394	26 610	46 380	1 073
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	5	3	474	7 203	426	806	5 836	19 394	26 610	46 380	1 073
333411	Air purification equipment mfg . . . . .	-	4	3	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg . . . . .	5	16	3	267	9 961	157	318	4 632	18 003	16 782	34 845	1 884
334	Computer & electronic product mfg . . . . .	-	124	54	30 191	987 509	8 838	14 821	204 612	3 106 444	8 473 591	11 885 709	155 143
3341	Computer & peripheral equipment mfg . . . . .	-	21	5	j	D	D	D	D	D	D	D	42 755
33411	Computer & peripheral equipment mfg . . . . .	-	21	5	j	D	D	D	D	D	D	D	42 755
334111	Electronic computer mfg . . . . .	-	7	3	j	D	D	D	D	D	D	D	D
334112	Computer storage device mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
3342	Communications equipment mfg . . . . .	-	18	13	i	D	D	D	D	D	D	D	32 194
33421	Telephone apparatus mfg . . . . .	-	7	6	h	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg . . . . .	-	7	6	h	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	-	10	7	2 760	131 421	1 859	3 226	76 553	308 342	354 748	661 158	D
334220	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	-	10	7	2 760	131 421	1 859	3 226	76 553	308 342	354 748	661 158	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	-	45	22	h	D	D	D	D	D	D	D	68 472
33441	Semiconductor & other electronic component mfg .....	-	45	22	h	D	D	D	D	D	D	D	68 472
334413	Semiconductor & related device mfg ...	1	6	3	g	D	D	D	D	D	D	D	D
334415	Electronic resistor mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg .....	3	6	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	-	9	8	f	D	D	D	D	D	D	D	3 168
334419	Other electronic component mfg .....	-	12	6	537	19 413	335	667	6 799	52 121	24 203	77 003	D
3345	Navigational, measuring, medical, & control instruments mfg .....	1	35	14	g	D	D	D	D	D	D	D	11 389
33451	Navigational, measuring, medical, & control instruments mfg .....	1	35	14	g	D	D	D	D	D	D	D	11 389
334515	Electricity measuring & testing instrument mfg .....	-	5	3	f	D	D	D	D	D	D	D	8 249
334519	Other measuring & controlling device mfg .....	1	9	5	f	D	D	D	D	D	D	D	2 300
335	Electrical equipment, appliance, & component mfg .....	-	29	14	3 328	123 956	1 906	3 781	49 391	328 288	503 982	839 687	19 767
3353	Electrical equipment mfg ..	-	14	8	1 994	82 677	907	1 794	24 736	216 731	374 434	603 483	9 824
33531	Electrical equipment mfg .....	-	14	8	1 994	82 677	907	1 794	24 736	216 731	374 434	603 483	9 824
335312	Motor & generator mfg .....	-	3	3	490	15 542	262	485	7 314	26 474	33 894	64 044	D
335313	Switchgear & switchboard apparatus mfg .....	-	3	2	e	D	D	D	D	D	D	D	458
335314	Relay & industrial control mfg .....	-	5	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	11	6	1 307	40 577	984	1 961	24 325	110 948	128 892	234 940	D
33593	Wiring device mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	-	4	1	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	1	18	6	501	14 988	349	813	9 880	33 983	41 184	75 156	1 640
3362	Motor vehicle body & trailer mfg .....	-	7	2	316	9 356	213	575	6 583	17 105	25 371	42 785	123
33621	Motor vehicle body & trailer mfg .....	-	7	2	316	9 356	213	575	6 583	17 105	25 371	42 785	123
336211	Motor vehicle body mfg .....	-	5	2	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	1	109	14	1 741	30 108	1 477	3 022	22 637	66 673	57 817	124 254	5 734
3371	Household & institutional furniture & kitchen cabinet mfg .....	2	80	7	1 066	13 535	941	1 798	10 390	28 757	26 171	54 815	D
33711	Wood kitchen cabinet & counter top mfg .....	3	55	3	355	7 236	284	520	5 465	14 392	11 832	26 116	823
337110	Wood kitchen cabinet & counter top mfg ...	3	55	3	355	7 236	284	520	5 465	14 392	11 832	26 116	823
33712	Household & institutional furniture mfg .....	1	25	4	711	6 299	657	1 278	4 925	14 365	14 339	28 699	D
337121	Upholstered household furniture mfg .....	1	7	2	563	3 534	535	1 047	2 845	9 913	10 246	20 314	352
3372	Office furniture (including fixtures) mfg .....	1	26	7	651	16 091	518	1 194	11 935	36 571	30 114	66 536	4 232
33721	Office furniture (including fixtures) mfg .....	1	26	7	651	16 091	518	1 194	11 935	36 571	30 114	66 536	4 232
337211	Wood office furniture mfg .....	-	6	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>RALEIGH-DURHAM-CHAPEL HILL, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg.....	3	98	12	1 234	44 897	733	1 417	18 253	92 342	45 410	147 866	4 185
3391	Medical equipment & supplies mfg.....	3	52	6	736	30 827	398	789	10 235	66 835	27 889	105 551	3 184
33911	Medical equipment & supplies mfg.....	3	52	6	736	30 827	398	789	10 235	66 835	27 889	105 551	3 184
339113	Surgical appliance & supplies mfg.....	—	5	1	369	18 131	191	427	5 932	34 711	13 420	58 940	1 079
3399	Other miscellaneous mfg... All other miscellaneous mfg.....	4	46	6	498	14 070	335	628	8 018	25 507	17 521	42 315	1 001
33999		4	13	4	255	8 190	170	320	4 873	12 958	9 363	21 707	607
<b>31-33</b>	<b>ROCKY MOUNT, NC MSA</b>												
	<b>Manufacturing ....</b>	—	<b>154</b>	<b>80</b>	<b>17 599</b>	<b>501 804</b>	<b>13 871</b>	<b>28 157</b>	<b>327 271</b>	<b>1 399 471</b>	<b>1 925 487</b>	<b>3 328 369</b>	<b>139 128</b>
311	Food mfg.....	1	8	5	1 341	37 182	889	2 313	22 764	109 947	169 560	279 742	D
3118	Bakeries & tortilla mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	1	1	e	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, & other pastries mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	—	3	3	438	10 066	234	482	3 524	26 903	65 141	92 033	D
3122	Tobacco mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
31221	Tobacco stemming & redrying .....	—	1	1	e	D	D	D	D	D	D	D	D
312210	Tobacco stemming & redrying .....	—	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills .....	—	9	8	2 515	56 210	2 098	4 714	42 256	96 004	231 988	324 328	11 694
3132	Fabric mills .....	—	6	6	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	—	2	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	—	2	2	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	—	2	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
314	Textile product mills.....	—	9	5	482	13 615	441	874	10 653	19 839	40 235	58 522	1 715
3141	Textile furnishings mills....	—	4	2	e	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	—	4	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	13	9	1 219	21 670	1 102	2 201	17 951	29 751	38 954	69 914	2 127
3151	Apparel knitting mills .....	—	2	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	—	1	1	e	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	—	1	1	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	—	1	1	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	—	1	1	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	—	10	6	e	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors .....	—	7	5	284	3 764	268	523	3 617	6 027	1 588	7 615	128
315212	Women's, girls', & infants' cut & sew apparel contractors ..	—	7	5	284	3 764	268	523	3 617	6 027	1 588	7 615	128
321	Wood product mfg .....	—	13	7	784	18 955	659	1 300	13 454	35 043	51 110	86 301	2 479
3212	Veneer, plywood, & engineered wood product mfg .....	1	3	3	292	7 685	246	581	5 722	13 769	17 925	31 889	1 410
32121	Veneer, plywood, & engineered wood product mfg.....	1	3	3	292	7 685	246	581	5 722	13 769	17 925	31 889	1 410
3219	Other wood product mfg... All other wood product mfg.....	—	9	4	e	D	D	D	D	D	D	D	D
32199		—	6	2	e	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	—	1	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ROCKY MOUNT, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
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	e	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
325222	Noncellulosic organic fiber mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	4	4	1 142	27 279	1 045	1 891	21 954	62 719	57 939	121 340	5 658
3261	Plastics product mfg .....	-	3	3	f	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
32619	Other plastics product mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	25	10	1 488	42 287	1 079	2 331	26 581	101 248	102 973	202 143	8 017
3323	Architectural & structural metals mfg .....	-	8	3	416	12 974	249	498	6 711	36 153	34 712	70 837	1 191
33231	Plate work & fabricated structural product mfg ..	-	3	2	e	D	D	D	D	D	D	D	D
332311	Prefabricated metal building & component mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
3325	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	11	5	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg .....	-	3	1	e	D	D	D	D	D	D	D	413
33311	Agricultural implement mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	7	5	1 137	37 437	824	1 784	22 564	93 827	137 477	229 844	10 390
3353	Electrical equipment mfg ..	-	3	2	e	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	-	1	1	e	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
33592	Communication & energy wire & cable mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	7	4	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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<b>31-33</b>	<b>ROCKY MOUNT, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	-	10	3	609	14 609	466	940	9 751	31 024	40 870	70 936	936
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	7	2	e	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	4	2	e	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	9	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	6	2	f	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
	<b>WILMINGTON, NC MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>260</b>	<b>72</b>	<b>10 718</b>	<b>425 722</b>	<b>7 707</b>	<b>16 180</b>	<b>269 867</b>	<b>2 073 537</b>	<b>1 678 453</b>	<b>3 711 435</b>	<b>204 016</b>
321	Wood product mfg .....	-	11	7	600	14 332	523	1 071	10 494	22 455	62 037	84 087	1 035
3219	Other wood product mfg ...	-	8	5	e	D	D	D	D	D	D	D	286
322	Paper mfg .....	-	4	3	e	D	D	D	D	D	D	D	5 650
3222	Converted paper product mfg .....	-	4	3	e	D	D	D	D	D	D	D	5 650
32221	Paperboard container mfg .....	-	4	3	e	D	D	D	D	D	D	D	5 650
322212	Folding paperboard box mfg .....	-	3	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	1	35	4	280	6 082	171	302	3 434	14 036	9 424	23 486	3 455
3231	Printing & related support activities .....	1	35	4	280	6 082	171	302	3 434	14 036	9 424	23 486	3 455
32311	Printing .....	1	35	4	280	6 082	171	302	3 434	14 036	9 424	23 486	3 455
325	Chemical mfg .....	-	17	10	3 541	177 017	2 570	5 599	114 481	849 883	938 868	1 759 856	105 051
3251	Basic chemical mfg .....	-	10	7	3 266	165 092	2 358	5 143	105 535	780 941	898 035	1 674 117	102 914
32511	Petrochemical mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
325110	Petrochemical mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg .....	-	4	3	1 455	70 661	1 136	2 350	49 959	306 331	152 362	470 199	D
325188	All other basic inorganic chemical mfg .....	-	4	3	1 455	70 661	1 136	2 350	49 959	306 331	152 362	470 199	D
32519	Other basic organic chemical mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg ....	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	22	7	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	5	2	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	5	2	g	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass .....	-	5	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	49	9	603	18 622	464	923	11 856	63 571	30 469	95 033	2 027
3323	Architectural & structural metals mfg .....	-	16	5	286	8 932	205	454	5 091	46 577	20 610	68 351	1 028
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	22	4	267	8 590	219	407	5 983	15 149	7 906	22 881	837
333	Machinery mfg .....	1	14	7	618	19 418	389	850	10 207	49 834	115 042	164 635	3 534
335	Electrical equipment, appliance, & component mfg .....	-	6	2	e	D	D	D	D	D	D	D	2 199
3359	Other electrical equipment & component mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg .....	-	2	2	e	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>WILMINGTON, NC MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg .....	-	10	6	1 322	65 370	1 043	1 726	46 835	148 610	168 621	317 358	D
3363	Motor vehicle parts mfg ...	-	4	3	e	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	-	1	1	g	D	D	D	D	D	D	D	D

<sup>1</sup>Some 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.

<sup>2</sup>Industries 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ALAMANCE COUNTY, NC</b>												
	<b>Manufacturing ....</b>	-	<b>282</b>	<b>153</b>	<b>21 490</b>	<b>588 155</b>	<b>17 603</b>	<b>35 199</b>	<b>406 451</b>	<b>1 415 506</b>	<b>1 931 324</b>	<b>3 324 750</b>	<b>134 026</b>
313	Textile mills .....	1	44	35	6 541	158 549	5 655	12 683	122 313	388 452	657 443	1 042 996	47 018
3131	Fiber, yarn, & thread mills .	-	9	8	1 272	31 100	1 107	2 580	24 150	94 095	80 413	168 598	14 340
31311	Fiber, yarn, & thread mills .....	-	9	8	1 272	31 100	1 107	2 580	24 150	94 095	80 413	168 598	14 340
313112	Yarn texturing, throwing, & twisting mills .....	-	4	4	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	2	23	17	2 934	70 813	2 565	5 548	54 929	137 631	206 778	344 294	24 057
31321	Broadwoven fabric mills .	3	5	3	1 269	29 368	1 126	2 503	24 726	65 538	103 950	168 229	D
313210	Broadwoven fabric mills .....	3	5	3	1 269	29 368	1 126	2 503	24 726	65 538	103 950	168 229	D
31324	Knit fabric mills .....	1	13	10	1 284	33 844	1 095	2 355	23 944	57 736	84 975	143 532	D
313249	Other knit fabric & lace mills .....	-	7	6	849	22 639	729	1 556	16 723	29 373	33 360	63 208	D
3133	Textile & fabric finishing & fabric coating mills .....	1	12	10	2 335	56 636	1 983	4 555	43 234	156 726	370 252	530 104	8 621
31331	Textile & fabric finishing mills .....	1	12	10	2 335	56 636	1 983	4 555	43 234	156 726	370 252	530 104	8 621
313311	Broadwoven fabric finishing mills .....	1	8	6	1 448	33 285	1 213	2 803	25 727	108 680	258 068	364 675	4 251
313312	Textile & fabric finishing mills .....	-	4	4	887	23 351	770	1 752	17 507	48 046	112 184	165 429	4 370
314	Textile product mills .....	-	12	6	1 267	32 968	1 110	1 623	25 423	87 728	82 123	172 174	1 097
3141	Textile furnishings mills ...	-	6	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	5	2	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
3149	Other textile product mills ..	2	6	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	47	33	3 807	72 787	3 353	6 247	55 483	164 759	206 963	367 467	8 845
3151	Apparel knitting mills .....	-	40	30	h	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	-	39	29	3 545	67 803	3 168	5 921	53 029	159 600	199 600	354 720	8 812
315111	Sheer hosiery mills .....	-	9	8	999	19 459	874	1 560	14 349	48 299	47 827	93 162	2 927
315119	Other hosiery & sock mills .....	1	30	21	2 546	48 344	2 294	4 361	38 680	111 024	151 773	261 558	5 885
322	Paper mfg .....	-	7	7	694	24 051	531	1 158	14 858	39 210	75 117	114 504	4 346
3222	Converted paper product mfg .....	-	7	7	694	24 051	531	1 158	14 858	39 210	75 117	114 504	4 346
32221	Paperboard container mfg .....	-	5	5	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>31-33</b>	<b>ALAMANCE COUNTY, NC—Con.</b>													
	<b>Manufacturing—Con.</b>													
325	Chemical mfg .....	3	10	5	f	D	D	D	D	D	D	D	D	
3254	Pharmaceutical & medicine mfg .....	3	4	4	f	D	D	D	D	D	D	D	D	
32541	Pharmaceutical & medicine mfg .....	3	4	4	f	D	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg .....	—	19	14		1 064	27 336	866	1 406	17 165	88 945	56 543	146 121	18 660
3261	Plastics product mfg .....	—	14	11	f	D	D	D	D	D	D	D	D	
32619	Other plastics product mfg .....	1	10	8		537	12 097	409	604	6 604	41 155	16 591	57 333	4 858
326199	All other plastics product mfg .....	1	10	8		537	12 097	409	604	6 604	41 155	16 591	57 333	4 858
332	Fabricated metal product mfg .....	—	27	9		844	21 732	607	952	12 595	99 089	30 430	133 402	3 170
333	Machinery mfg .....	—	11	7		627	22 527	457	974	13 597	64 165	88 999	152 075	D
334	Computer & electronic product mfg .....	—	8	4	f	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	6	5		1 837	61 688	1 592	3 143	46 700	94 087	248 191	348 120	11 291
3353	Electrical equipment mfg ..	—	3	3	g	D	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	3	3	g	D	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	6	3		892	50 282	782	1 588	36 900	51 822	88 607	139 496	D
3363	Motor vehicle parts mfg ...	—	3	3	f	D	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	D
	<b>ALEXANDER COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>4</b>	<b>99</b>	<b>50</b>		<b>5 512</b>	<b>129 158</b>	<b>4 741</b>	<b>9 091</b>	<b>101 274</b>	<b>295 543</b>	<b>342 185</b>	<b>634 966</b>	<b>15 750</b>
321	Wood product mfg .....	—	23	10		531	11 995	462	875	9 358	20 776	30 666	51 430	1 867
322	Paper mfg .....	3	3	3		542	18 565	460	1 054	13 588	43 555	66 328	108 238	5 159
3222	Converted paper product mfg .....	3	3	3		542	18 565	460	1 054	13 588	43 555	66 328	108 238	5 159
337	Furniture & related product mfg .....	2	42	24		2 995	67 810	2 580	4 907	54 621	122 674	151 252	272 114	2 547
3371	Household & institutional furniture & kitchen cabinet mfg .....	2	28	17	h	D	D	D	D	D	D	D	D	2 110
33712	Household & institutional furniture mfg .....	2	27	17	h	D	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	2	20	16	h	D	D	D	D	D	D	D	D	D
	<b>ALLEGHANY COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>22</b>	<b>10</b>		<b>1 422</b>	<b>27 246</b>	<b>1 124</b>	<b>2 434</b>	<b>19 629</b>	<b>80 016</b>	<b>158 571</b>	<b>245 309</b>	<b>2 011</b>
333	Machinery mfg .....	—	3	2	f	D	D	D	D	D	D	D	D	D
	<b>ANSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>37</b>	<b>22</b>		<b>3 426</b>	<b>74 306</b>	<b>2 867</b>	<b>5 853</b>	<b>53 417</b>	<b>174 021</b>	<b>192 308</b>	<b>364 839</b>	<b>19 988</b>
313	Textile mills .....	—	4	4		1 274	27 689	1 136	2 356	19 914	60 067	62 166	122 266	4 465
3132	Fabric mills .....	—	2	2	f	D	D	D	D	D	D	D	D	D
314	Textile product mills .....	9	3	1	f	D	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ...	9	2	1	f	D	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	9	2	1	f	D	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	9	2	1	f	D	D	D	D	D	D	D	D	D
	<b>ASHE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>37</b>	<b>12</b>		<b>2 093</b>	<b>42 167</b>	<b>1 823</b>	<b>3 369</b>	<b>33 236</b>	<b>99 182</b>	<b>131 858</b>	<b>242 129</b>	<b>8 585</b>



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ADERY COUNTY, NC</b>													
31-33	Manufacturing ....	-	11	5	802	14 601	749	1 415	13 111	49 020	36 385	85 359	1 219
<b>BEAUFORT COUNTY, NC</b>													
31-33	Manufacturing ....	-	65	27	5 772	139 826	4 606	9 128	95 478	328 028	581 084	927 805	33 248
313	Textile mills .....	-	2	1	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	g	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ....	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	4	2	g	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	-	2	1	g	D	D	D	D	D	D	D	D
32531	Fertilizer mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
325312	Phosphatic fertilizer mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	5	3	1 019	26 514	807	1 513	14 875	54 887	73 169	128 261	6 837
<b>BERTIE COUNTY, NC</b>													
31-33	Manufacturing ....	1	16	8	h	D	D	D	D	D	D	D	5 254
311	Food mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing ....	-	1	1	g	D	D	D	D	D	D	D	D
<b>BLADEN COUNTY, NC</b>													
31-33	Manufacturing ....	-	36	21	6 559	127 404	5 846	11 016	103 419	-192 517	1 224 024	1 040 858	59 511
311	Food mfg .....	-	5	2	h	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	3	1	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	3	1	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	1	h	D	D	D	D	D	D	D	D
313	Textile mills .....	-	5	5	843	19 215	677	1 399	14 446	-31 300	147 682	121 187	6 480
3132	Fabric mills .....	1	2	2	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313241	Wett knit fabric mills ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>BRUNSWICK COUNTY, NC</b>													
31-33	Manufacturing ....	-	57	18	2 340	86 904	1 785	3 673	58 442	458 331	570 237	1 013 255	D
325	Chemical mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg ....	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>BUNCOMBE COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>332</b>	<b>127</b>	<b>j</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>105 362</b>
311	Food mfg .....	2	8	4	864	20 082	729	1 823	15 460	223 748	212 476	436 014	4 299
313	Textile mills .....	-	17	12	1 981	51 312	1 707	3 889	37 776	115 897	101 643	219 445	12 333
3132	Fabric mills .....	-	12	9	1 626	42 422	1 365	2 932	29 382	98 292	88 530	188 858	11 863
31323	Nonwoven fabric mills...	-	5	4	916	24 465	763	1 660	16 130	59 497	65 100	125 341	9 999
313230	Nonwoven fabric mills..	-	5	4	916	24 465	763	1 660	16 130	59 497	65 100	125 341	9 999
314	Textile product mills.....	-	11	3	1 071	24 090	995	2 542	18 416	41 545	61 086	110 570	D
3141	Textile furnishings mills....	-	3	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	2	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
321	Wood product mfg .....	-	8	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	33	8	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	2	33	8	f	D	D	D	D	D	D	D	D
32311	Printing .....	2	32	8	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	6	2	f	D	D	D	D	D	D	D	152
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	18	15	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	1	16	14	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	12	11	1 021	21 941	879	1 303	15 108	44 651	43 459	86 552	6 132
326199	All other plastics product mfg.....	2	11	10	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	65	21	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	3	38	10	614	16 865	464	897	11 499	29 014	13 076	41 992	2 403
333	Machinery mfg .....	-	40	17	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	5	3	720	21 850	582	1 243	16 153	83 297	76 444	161 020	3 783
33361	Engine, turbine, & power transmission equipment mfg .....	-	5	3	720	21 850	582	1 243	16 153	83 297	76 444	161 020	3 783
334	Computer & electronic product mfg.....	1	20	10	g	D	D	D	D	D	D	D	17 169
3346	Mfg & reproducing magnetic & optical media ..	-	2	2	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	-	2	2	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing.....	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	9	7	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	7	7	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	7	7	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	-	5	5	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	10	5	1 250	36 726	894	1 979	23 019	92 122	341 568	434 210	4 819
3363	Motor vehicle parts mfg ...	-	7	3	f	D	D	D	D	D	D	D	2 468
33634	Motor vehicle brake system mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg .....	-	3	2	f	D	D	D	D	D	D	D	D

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	<b>BUNCOMBE COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>													
339	Miscellaneous mfg . . . . .	2	38	6	f	D	D	D	D	D	D	D	D	
3391	Medical equipment & supplies mfg . . . . .	2	20	5	531	17 223	313	607	7 343	41 777	47 821	93 040	9 296	
33911	Medical equipment & supplies mfg . . . . .	2	20	5	531	17 223	313	607	7 343	41 777	47 821	93 040	9 296	
	<b>BURKE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>171</b>	<b>83</b>		<b>17 279</b>	<b>416 684</b>	<b>14 305</b>	<b>27 565</b>	<b>297 204</b>	<b>1 026 722</b>	<b>1 116 534</b>	<b>2 126 871</b>	<b>73 503</b>
311	Food mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D	
3116	Meat product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
31161	Animal slaughtering & processing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
311615	Poultry processing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
3118	Bakeries & tortilla mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
31181	Bread & bakery product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
311812	Commercial bakeries . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
313	Textile mills . . . . .	3	16	11	2 487	59 443	2 089	4 292	43 162	122 340	138 654	261 640	D	
3132	Fabric mills . . . . .	5	6	5	g	D	D	D	D	D	D	D	D	
31321	Broadwoven fabric mills . . . . .	7	3	3	f	D	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills . . . . .	7	3	3	f	D	D	D	D	D	D	D	D	
3133	Textile & fabric finishing & fabric coating mills . . . . .	1	6	4	1 196	26 466	1 014	2 037	19 370	43 765	71 247	114 707	D	
31331	Textile & fabric finishing mills . . . . .	1	6	4	1 196	26 466	1 014	2 037	19 370	43 765	71 247	114 707	D	
313312	Textile & fabric finishing mills . . . . .	—	3	3	f	D	D	D	D	D	D	D	D	
315	Apparel mfg . . . . .	—	33	18	2 989	54 895	2 589	4 624	41 635	114 091	152 191	269 562	5 951	
3151	Apparel knitting mills . . . . .	—	30	16	h	D	D	D	D	D	D	D	D	
31511	Hosiery & sock mills . . . . .	—	28	14	g	D	D	D	D	D	D	D	D	
315119	Other hosiery & sock mills . . . . .	—	24	14	1 457	21 367	1 320	2 226	18 546	68 470	62 068	130 694	D	
31519	Other apparel knitting mills . . . . .	—	2	2	g	D	D	D	D	D	D	D	D	
315192	Underwear & nightwear knitting mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
316	Leather & allied product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
3162	Footwear mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
31621	Footwear mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
316213	Men's footwear (except athletic) mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg . . . . .	—	4	3	g	D	D	D	D	D	D	D	D	
3359	Other electrical equipment & component mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D	
33593	Wiring device mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D	
335931	Current-carrying wiring device mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg . . . . .	—	4	4	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg . . . . .	—	3	3	f	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 . . . . .	—	28	17	3 957	88 864	3 634	6 247	69 755	221 844	116 142	340 813	11 592	
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	—	27	17	h	D	D	D	D	D	D	D	11 592	
33712	Household & institutional furniture mfg . . . . .	—	27	17	h	D	D	D	D	D	D	D	11 592	
337121	Upholstered household furniture mfg . . . . .	—	10	6	f	D	D	D	D	D	D	D	D	
337122	Nonupholstered wood household furniture mfg . . . . .	—	13	10	h	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CABARRUS COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>166</b>	<b>56</b>	<b>13 099</b>	<b>409 681</b>	<b>10 652</b>	<b>22 844</b>	<b>295 268</b>	<b>6 096 688</b>	<b>1 882 385</b>	<b>7 991 845</b>	<b>288 731</b>
311	Food mfg . . . . .	-	6	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
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 . . . . .	-	19	12	4 906	127 890	4 396	10 470	107 594	276 125	457 955	741 306	42 534
3132	Fabric mills . . . . .	-	9	7	h	D	D	D	D	D	D	D	24 771
31321	Broadwoven fabric mills . . . . .	-	4	4	h	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	-	4	4	h	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	5	20	9	1 535	22 652	1 317	2 369	16 894	55 132	54 762	114 769	D
3151	Apparel knitting mills . . . . .	5	14	6	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	5	14	6	g	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills . . . . .	4	13	5	955	13 284	839	1 453	9 987	34 966	23 633	61 582	D
3152	Cut & sew apparel mfg . . . . .	6	5	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	7	9	6	1 080	26 605	889	1 821	20 074	56 468	54 973	109 659	4 730
3261	Plastics product mfg . . . . .	7	6	6	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	8	5	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg . . . . .	8	4	4	f	D	D	D	D	D	D	D	D
<b>CALDWELL COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>167</b>	<b>88</b>	<b>15 254</b>	<b>344 434</b>	<b>13 275</b>	<b>26 359</b>	<b>269 441</b>	<b>831 866</b>	<b>796 744</b>	<b>1 633 060</b>	<b>35 131</b>
313	Textile mills . . . . .	-	7	7	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	-	5	5	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills . . . . .	-	5	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	1	22	9	g	D	D	D	D	D	D	D	D
3151	Apparel knitting mills . . . . .	1	12	3	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	1	12	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	2	10	6	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors . . . . .	4	8	6	f	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	-	34	21	1 062	23 202	946	1 711	18 589	44 443	50 959	95 261	3 064
3212	Veneer, plywood, & engineered wood product mfg . . . . .	-	10	10	576	13 253	518	981	10 817	22 371	25 000	47 285	1 565
32121	Veneer, plywood, & engineered wood product mfg . . . . .	-	10	10	576	13 253	518	981	10 817	22 371	25 000	47 285	1 565
323	Printing & related support activities . . . . .	-	6	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities . . . . .	-	6	2	f	D	D	D	D	D	D	D	D
32311	Printing . . . . .	-	5	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	12	10	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg . . . . .	-	11	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	-	7	2	509	11 164	441	833	9 091	16 400	17 976	34 575	1 660
333	Machinery mfg . . . . .	-	7	3	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	-	41	24	8 802	192 402	7 934	16 371	160 200	443 000	377 373	826 483	13 886
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	-	35	24	i	D	D	D	D	D	D	D	13 848
33712	Household & institutional furniture mfg . . . . .	-	33	23	i	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg . . . . .	-	15	10	1 871	38 133	1 722	3 274	32 360	101 552	90 362	191 129	D
337122	Nonupholstered wood household furniture mfg . . . . .	-	17	13	6 852	152 891	6 147	12 994	126 790	339 077	285 059	631 027	11 924

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CARTERET COUNTY, NC</b>												
	Manufacturing ....	-	69	12	1 576	29 407	1 369	2 660	21 588	72 531	98 951	173 073	4 973
<b>31-33</b>	<b>CATAWBA COUNTY, NC</b>												
	Manufacturing ....	-	575	295	40 469	1 035 157	33 729	65 010	741 281	2 527 757	3 029 626	5 512 817	212 027
311	Food mfg .....	-	8	5	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	37	32	4 237	107 382	3 736	7 984	87 223	253 334	348 670	593 116	16 442
3131	Fiber, yarn, & thread mills .	-	12	12	1 253	29 208	1 104	2 328	23 047	71 150	93 725	162 661	6 918
31311	Fiber, yarn, & thread mills .....	-	12	12	1 253	29 208	1 104	2 328	23 047	71 150	93 725	162 661	6 918
313111	Yarn spinning mills ...	-	10	10	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	13	10	1 824	47 541	1 628	3 625	39 885	114 495	161 084	268 791	D
31321	Broadwoven fabric mills .	-	5	3	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	5	3	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery .....	-	3	2	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills ....	-	3	2	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	2	12	10	1 160	30 633	1 004	2 031	24 291	67 689	93 861	161 664	D
31331	Textile & fabric finishing mills .....	2	11	9	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	3	6	4	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	20	9	922	16 954	765	1 340	12 221	59 760	30 019	84 642	4 312
315	Apparel mfg .....	2	71	40	3 928	86 840	3 377	6 780	59 754	196 063	194 711	384 392	11 612
3151	Apparel knitting mills .....	2	61	35	h	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	2	58	34	h	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	-	9	4	f	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	3	49	30	h	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	5	2	f	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing .....	-	5	2	f	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing .....	-	5	2	f	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing .....	-	5	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	34	15	831	18 291	727	1 354	13 530	33 257	30 576	63 555	2 984
3219	Other wood product mfg ...	2	28	14	776	17 321	678	1 286	12 852	30 769	28 872	59 348	2 881
32191	Millwork .....	3	16	8	513	11 115	456	857	8 816	18 723	17 711	36 233	D
322	Paper mfg .....	-	11	8	1 070	32 629	894	1 884	23 266	87 703	109 705	197 651	18 960
3222	Converted paper product mfg .....	-	11	8	1 070	32 629	894	1 884	23 266	87 703	109 705	197 651	18 960
32221	Paperboard container mfg .....	-	9	6	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	-	30	7	800	30 462	624	1 089	23 571	41 397	39 987	82 255	D
3231	Printing & related support activities .....	-	30	7	800	30 462	624	1 089	23 571	41 397	39 987	82 255	D
32311	Printing .....	-	27	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	39	25	2 629	68 190	2 049	3 446	41 809	203 236	239 975	443 384	30 676
3261	Plastics product mfg .....	-	30	23	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg .....	-	14	14	g	D	D	D	D	D	D	D	11 088
326150	Urethane & other foam product (except polystyrene) mfg ....	-	14	14	g	D	D	D	D	D	D	D	11 088
32619	Other plastics product mfg .....	-	10	6	633	18 304	444	741	9 705	69 634	73 546	143 334	D
326199	All other plastics product mfg .....	-	10	6	633	18 304	444	741	9 705	69 634	73 546	143 334	D
327	Nonmetallic mineral product mfg .....	-	13	8	946	32 050	690	1 507	19 113	108 251	47 810	151 127	D
332	Fabricated metal product mfg .....	-	42	13	1 529	36 767	1 286	2 254	25 185	77 116	72 253	150 256	6 587
3326	Spring & wire product mfg .	-	5	2	558	11 605	512	875	8 965	22 913	27 926	50 767	1 111
33261	Spring & wire product mfg .....	-	5	2	558	11 605	512	875	8 965	22 913	27 926	50 767	1 111
334	Computer & electronic product mfg .....	3	10	6	f	D	D	D	D	D	D	D	D

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>CATAWBA COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	-	9	6	4 362	139 825	3 479	7 370	94 454	470 629	856 487	1 307 548	D
3359	Other electrical equipment & component mfg .....	-	5	4	h	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	-	4	4	4 032	131 981	3 185	6 709	90 052	450 956	842 394	1 275 281	48 636
335921	Fiber optic cable mfg...	-	3	3	g	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	1	190	105	15 912	376 359	13 537	25 063	284 328	723 352	695 658	1 416 963	24 217
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	136	80	14 209	341 159	12 053	22 411	257 328	663 074	641 997	1 303 499	21 124
33712	Household & institutional furniture mfg .....	1	131	80	j	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	1	95	61	10 764	270 028	9 100	16 726	200 377	497 449	502 452	997 030	12 137
337122	Nonupholstered wood household furniture mfg .....	1	25	13	h	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	-	52	24	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg .....	-	52	24	g	D	D	D	D	D	D	D	D
337211	Wood office furniture mfg .....	-	8	5	649	14 209	550	972	10 614	29 618	21 777	51 207	1 512
337215	Showcase, partition, shelving, & locker mfg .....	1	44	19	f	D	D	D	D	D	D	D	D
	<b>CHATHAM COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>76</b>	<b>36</b>	<b>7 109</b>	<b>158 246</b>	<b>6 261</b>	<b>12 196</b>	<b>122 659</b>	<b>431 484</b>	<b>580 024</b>	<b>1 014 269</b>	<b>45 096</b>
311	Food mfg .....	-	12	7	2 132	41 844	1 902	3 790	33 396	84 239	277 916	361 941	14 353
3116	Meat product mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	6	4	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	4	3	g	D	D	D	D	D	D	D	D
313	Textile mills .....	7	3	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	9	2	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .....	9	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	9	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	2	1	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
315111	Sheer hosiery mills .....	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	15	10	924	24 977	807	1 690	18 462	59 022	73 502	131 838	D
325	Chemical mfg .....	-	4	2	f	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
337	Furniture & related product mfg .....	-	10	4	715	5 679	647	1 263	3 971	13 281	12 067	25 575	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	8	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
	<b>CHEROKEE COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	1	<b>27</b>	<b>12</b>	<b>2 776</b>	<b>56 277</b>	<b>2 375</b>	<b>4 754</b>	<b>44 804</b>	<b>136 485</b>	<b>180 183</b>	<b>314 989</b>	<b>6 066</b>
315	Apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	2	2	f	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
315291	Infants' cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>CHOWAN COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>2</b>	<b>18</b>	<b>8</b>	<b>1 061</b>	<b>23 842</b>	<b>890</b>	<b>1 968</b>	<b>17 133</b>	<b>53 484</b>	<b>59 942</b>	<b>114 226</b>	<b>2 922</b>
313	Textile mills . . . . .	5	2	2	f	D	D	D	D	D	D	D	D
<b>CLEVELAND COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>-</b>	<b>173</b>	<b>82</b>	<b>14 655</b>	<b>399 872</b>	<b>11 767</b>	<b>23 839</b>	<b>293 286</b>	<b>1 321 179</b>	<b>1 181 848</b>	<b>2 496 989</b>	<b>119 706</b>
313	Textile mills . . . . .	1	33	21	3 579	74 841	2 973	6 339	55 575	184 876	265 920	444 610	29 471
3131	Fiber, yarn, & thread mills . . . . .	2	10	7	1 165	23 581	1 000	2 171	18 695	77 867	72 444	151 654	12 416
31311	Fiber, yarn, & thread mills . . . . .	2	10	7	1 165	23 581	1 000	2 171	18 695	77 867	72 444	151 654	12 416
313111	Yarn spinning mills . . . . .	2	10	7	1 165	23 581	1 000	2 171	18 695	77 867	72 444	151 654	12 416
3132	Fabric mills . . . . .	-	15	10	1 897	38 030	1 593	3 374	28 857	61 291	137 093	189 709	10 018
31321	Broadwoven fabric mills . . . . .	1	7	5	957	20 794	801	1 790	16 077	35 182	71 661	100 999	6 159
313210	Broadwoven fabric mills . . . . .	1	7	5	957	20 794	801	1 790	16 077	35 182	71 661	100 999	6 159
31324	Knit fabric mills . . . . .	-	6	5	f	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills . . . . .	-	8	4	517	13 230	380	794	8 023	45 718	56 383	103 247	7 037
31331	Textile & fabric finishing mills . . . . .	-	6	4	f	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	-	16	4	574	14 386	504	936	10 167	23 341	77 736	101 688	743
325	Chemical mfg . . . . .	-	4	3	1 300	47 973	1 080	2 125	35 327	243 138	181 238	427 986	9 612
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
327	Nonmetallic mineral product mfg . . . . .	-	8	4	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	-	15	8	807	22 546	628	1 313	14 329	125 256	85 551	209 759	12 588
334	Computer & electronic product mfg . . . . .	5	4	4	g	D	D	D	D	D	D	D	8 722
3344	Semiconductor & other electronic component mfg . . . . .	1	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg . . . . .	1	2	2	g	D	D	D	D	D	D	D	D
334414	Electronic capacitor mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	-	6	4	1 305	41 997	1 024	2 185	28 351	129 403	75 843	201 801	5 218
3353	Electrical equipment mfg . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	7	5	1 150	43 472	949	1 986	33 932	188 508	140 890	326 604	13 996
3363	Motor vehicle parts mfg . . . . .	-	3	2	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

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>COLUMBUS COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>46</b>	<b>25</b>	<b>4 767</b>	<b>129 932</b>	<b>3 707</b>	<b>7 570</b>	<b>83 069</b>	<b>379 395</b>	<b>511 914</b>	<b>895 463</b>	<b>116 778</b>
315	Apparel mfg . . . . .	-	7	6	1 648	25 977	1 441	2 696	20 775	99 240	64 972	163 780	393
3152	Cut & sew apparel mfg . . . . .	-	7	6	1 648	25 977	1 441	2 696	20 775	99 240	64 972	163 780	393
31521	Cut & sew apparel contractors . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	271
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	271
321	Wood product mfg . . . . .	-	7	3	f	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
32211	Pulp mills . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
322110	Pulp mills . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
<b>CRAVEN COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>86</b>	<b>23</b>	<b>4 344</b>	<b>118 469</b>	<b>3 477</b>	<b>5 974</b>	<b>87 847</b>	<b>237 592</b>	<b>561 731</b>	<b>796 366</b>	<b>52 075</b>
332	Fabricated metal product mfg . . . . .	-	11	3	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg . . . . .	-	2	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
332913	Plumbing fixture fitting & trim mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	2	5	3	f	D	D	D	D	D	D	D	2 125
3366	Ship & boat building . . . . .	-	3	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building . . . . .	-	3	1	f	D	D	D	D	D	D	D	D
336611	Ship building & repairing . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
<b>CUMBERLAND COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>121</b>	<b>52</b>	<b>12 282</b>	<b>384 612</b>	<b>9 912</b>	<b>19 938</b>	<b>281 927</b>	<b>1 419 353</b>	<b>1 367 574</b>	<b>2 766 911</b>	<b>93 238</b>
315	Apparel mfg . . . . .	-	6	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	-	5	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	-	7	4	663	30 363	471	1 007	18 770	364 285	308 649	668 789	17 900
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	3	2	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	-	1	1	h	D	D	D	D	D	D	D	D
32621	Tire mfg . . . . .	-	1	1	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) . . . . .	-	1	1	h	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	-	5	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg . . . . .	-	2	1	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg . . . . .	-	1	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
335	Electrical equipment, appliance, & component mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D



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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CUMBERLAND COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg .....	-	6	4	1 490	43 114	1 026	2 280	26 012	118 235	144 493	267 256	D
3363	Motor vehicle parts mfg ...	-	6	4	1 490	43 114	1 026	2 280	26 012	118 235	144 493	267 256	D
33639	Other motor vehicle parts mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
<b>DAVIDSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>326</b>	<b>132</b>	<b>21 576</b>	<b>521 653</b>	<b>17 683</b>	<b>34 042</b>	<b>384 515</b>	<b>1 229 795</b>	<b>1 022 149</b>	<b>2 249 372</b>	<b>116 216</b>
313	Textile mills .....	-	12	7	1 165	34 328	1 043	2 495	28 205	90 490	145 747	235 089	27 546
3132	Fabric mills .....	-	5	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	2	22	12	1 133	19 316	987	1 922	15 271	40 739	38 963	80 015	D
3151	Apparel knitting mills .....	5	15	8	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	5	15	8	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	48	24	1 649	35 716	1 386	2 475	25 709	63 640	78 350	146 328	3 170
3212	Veneer, plywood, & engineered wood product mfg .....	1	21	11	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg .....	1	21	11	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	3	23	13	f	D	D	D	D	D	D	D	D
32191	Millwork .....	3	13	7	539	10 819	469	835	8 560	21 043	32 993	59 607	D
326	Plastics & rubber products mfg .....	-	22	8	g	D	D	D	D	D	D	D	5 078
3261	Plastics product mfg .....	-	17	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	-	8	4	802	18 724	651	1 208	11 937	45 638	39 454	83 936	2 887
326199	All other plastics product mfg .....	-	8	4	802	18 724	651	1 208	11 937	45 638	39 454	83 936	2 887
327	Nonmetallic mineral product mfg .....	-	18	8	2 329	71 407	2 017	3 933	56 400	218 784	80 517	298 466	39 657
3272	Glass & glass product mfg .	-	4	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	42	13	1 219	30 582	961	1 847	20 778	77 094	64 068	138 883	6 303
333	Machinery mfg .....	-	17	7	721	25 719	493	895	13 773	61 217	56 745	113 272	D
3332	Industrial machinery mfg ..	-	10	5	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	3	3	667	19 797	400	797	7 881	45 834	27 942	72 856	D
337	Furniture & related product mfg .....	-	79	32	9 901	215 111	8 237	15 404	171 746	451 076	329 664	781 437	9 773
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	54	24	9 301	203 457	7 714	14 498	162 665	421 142	296 045	718 103	9 216
33712	Household & institutional furniture mfg .....	-	51	24	9 289	203 285	7 704	14 486	162 537	420 829	295 804	717 549	9 202
337122	Nonupholstered wood household furniture mfg .....	-	26	14	8 421	184 289	7 024	13 119	148 633	384 572	249 747	635 665	7 844
<b>DAVIE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>45</b>	<b>18</b>	<b>2 886</b>	<b>76 397</b>	<b>2 423</b>	<b>4 619</b>	<b>52 570</b>	<b>178 140</b>	<b>232 626</b>	<b>406 851</b>	<b>D</b>
333	Machinery mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>DAVIE COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	1	5	3	1 011	23 161	970	2 034	19 062	52 791	45 716	96 041	575
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	3	3	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	1	3	3	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	3	2	2	f	D	D	D	D	D	D	D	D
	<b>DUPLIN COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>48</b>	<b>21</b>	<b>4 688</b>	<b>95 249</b>	<b>3 763</b>	<b>7 785</b>	<b>68 698</b>	<b>190 311</b>	<b>486 895</b>	<b>675 934</b>	<b>17 777</b>
311	Food mfg .....	2	10	4	1 871	33 333	1 636	3 330	25 887	67 994	162 222	233 352	6 518
3116	Meat product mfg .....	—	5	3	1 397	23 609	1 241	2 631	18 623	43 672	129 907	176 429	D
31161	Animal slaughtering & processing .....	—	5	3	1 397	23 609	1 241	2 631	18 623	43 672	129 907	176 429	D
311615	Poultry processing .....	—	2	2	g	D	D	D	D	D	D	D	D
313	Textile mills .....	2	6	6	1 972	47 615	1 497	3 400	33 416	91 387	297 842	385 567	9 990
3133	Textile & fabric finishing & fabric coating mills .....	4	2	2	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	4	2	2	g	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills .....	4	2	2	g	D	D	D	D	D	D	D	D
	<b>DURHAM COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>181</b>	<b>60</b>	<b>31 489</b>	<b>1 027 204</b>	<b>10 092</b>	<b>17 951</b>	<b>252 127</b>	<b>2 961 050</b>	<b>7 970 703</b>	<b>11 223 803</b>	<b>181 480</b>
313	Textile mills .....	—	5	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	—	2	2	f	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills .....	—	2	2	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .....	—	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	8	5	2	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	9	2	1	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	9	2	1	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	9	2	1	g	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	—	37	8	1 087	40 278	871	1 814	25 907	148 058	120 753	267 381	5 087
3231	Printing & related support activities .....	—	37	8	1 087	40 278	871	1 814	25 907	148 058	120 753	267 381	5 087
32311	Printing .....	—	29	7	g	D	D	D	D	D	D	D	4 917
323110	Commercial lithographic printing .....	—	12	5	531	20 940	454	957	16 325	104 274	99 315	202 974	2 632
325	Chemical mfg .....	1	16	5	893	45 508	407	814	14 950	107 872	75 781	184 424	5 248
3254	Pharmaceutical & medicine mfg .....	2	7	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	2	7	2	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	23	16	j	D	D	D	D	D	D	D	121 548
3341	Computer & peripheral equipment mfg .....	—	5	1	j	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	5	1	j	D	D	D	D	D	D	D	D
334111	Electronic computer mfg .....	—	1	1	j	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	5	5	h	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg .....	—	3	3	h	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg .....	—	3	3	h	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	2	2	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	2	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>DURHAM COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	1	6	4	g	D	D	D	D	D	D	D	59 959
33441	Semiconductor & other electronic component mfg .....	1	6	4	g	D	D	D	D	D	D	D	59 959
334413	Semiconductor & related device mfg...	1	3	3	g	D	D	D	D	D	D	D	D
<b>EDGECOMBE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>50</b>	<b>28</b>	<b>7 720</b>	<b>233 994</b>	<b>5 995</b>	<b>11 554</b>	<b>136 655</b>	<b>539 082</b>	<b>1 070 729</b>	<b>1 606 555</b>	<b>84 061</b>
311	Food mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, & other pastries mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	5	5	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	4	4	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	-	2	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
315	Apparel mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FORSYTH COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>399</b>	<b>147</b>	<b>26 545</b>	<b>908 591</b>	<b>20 891</b>	<b>40 668</b>	<b>642 097</b>	<b>5 769 305</b>	<b>3 886 757</b>	<b>9 676 293</b>	<b>219 042</b>
311	Food mfg .....	-	20	10	967	27 251	735	1 640	19 565	103 034	274 457	376 684	6 372
3118	Bakeries & tortilla mfg .....	-	13	6	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	9	5	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	-	7	6	h	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
31212	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	-	4	4	h	D	D	D	D	D	D	D	D
31222	Tobacco product mfg ...	-	4	4	h	D	D	D	D	D	D	D	D
312221	Cigarette mfg .....	-	2	2	h	D	D	D	D	D	D	D	D
313	Textile mills .....	-	13	7	1 607	45 098	1 310	3 250	31 213	132 200	142 578	274 347	17 221
3132	Fabric mills .....	-	6	4	517	13 507	398	720	7 553	29 351	26 905	56 470	D
3133	Textile & fabric finishing & fabric coating mills .....	-	7	3	1 090	31 591	912	2 530	23 660	102 849	115 673	217 877	D
31331	Textile & fabric finishing mills .....	-	7	3	1 090	31 591	912	2 530	23 660	102 849	115 673	217 877	D
313311	Broadwoven fabric finishing mills .....	-	6	2	f	D	D	D	D	D	D	D	D

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

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>FORSYTH COUNTY, NC—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
315	Apparel mfg . . . . .	1	12	9	3 706	75 117	3 266	6 236	61 098	272 825	304 389	581 375	D
3151	Apparel knitting mills . . . . .	—	5	5	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	—	4	4	g	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills . . . . .	1	2	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	1	4	4	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	1	3	3	g	D	D	D	D	D	D	D	D
315221	Men's & boys' cut & sew underwear & nightwear mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg . . . . .	9	1	1	g	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	—	12	9	1 548	70 058	1 146	2 262	43 379	198 341	249 242	446 295	14 878
3222	Converted paper product mfg . . . . .	—	12	9	1 548	70 058	1 146	2 262	43 379	198 341	249 242	446 295	14 878
32221	Paperboard container mfg . . . . .	—	8	7	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg . . . . .	—	6	5	502	17 488	360	703	8 605	50 897	45 460	96 234	D
32222	Paper bag & coated & treated paper mfg . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
322225	Laminated aluminum foil mfg for flexible packaging uses . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	2	67	15	1 394	37 603	1 058	1 987	23 512	94 851	48 881	142 792	D
3231	Printing & related support activities . . . . .	2	67	15	1 394	37 603	1 058	1 987	23 512	94 851	48 881	142 792	D
32311	Printing . . . . .	2	59	12	1 271	33 330	974	1 821	20 935	86 816	47 616	133 416	D
325	Chemical mfg . . . . .	1	16	7	637	17 960	436	736	10 861	77 710	102 091	174 253	4 073
332	Fabricated metal product mfg . . . . .	—	58	24	2 864	85 682	2 140	4 051	58 339	241 394	245 026	482 371	11 786
3323	Architectural & structural metals mfg . . . . .	—	19	9	864	26 395	601	1 197	15 633	70 624	90 572	160 119	2 069
33231	Plate work & fabricated structural product mfg . . . . .	—	9	6	677	21 088	460	930	12 287	59 627	83 118	141 705	1 109
3325	Hardware mfg . . . . .	—	5	3	588	11 083	433	630	8 292	37 688	24 412	61 138	D
33251	Hardware mfg . . . . .	—	5	3	588	11 083	433	630	8 292	37 688	24 412	61 138	D
332510	Hardware mfg . . . . .	—	5	3	588	11 083	433	630	8 292	37 688	24 412	61 138	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	—	17	5	708	20 945	551	1 088	15 185	59 059	13 664	72 049	3 968
333	Machinery mfg . . . . .	—	26	11	1 956	74 229	1 475	3 006	50 883	186 312	547 941	772 868	28 578
3336	Engine, turbine, & power transmission equipment mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg . . . . .	—	8	5	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	—	14	9	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg . . . . .	—	8	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg . . . . .	—	8	6	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg . . . . .	—	6	5	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	—	5	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
33591	Battery mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>FORSYTH COUNTY, NC</b>														
<b>—Con.</b>														
<b>31-33</b>	<b>Manufacturing—</b>													
	<b>Con.</b>													
336	Transportation equipment mfg .....	—	12	2	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	—	5	2	f	D	D	D	D	D	D	D	D	
33636	Motor vehicle seating & interior trim mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	
336360	Motor vehicle seating & interior trim mfg ...	—	2	2	f	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg .....	—	21	9		1 150	25 046	1 007	1 953	19 852	55 744	38 208	92 789	2 118
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	13	5	f	D	D	D	D	D	D	D	D	
33712	Household & institutional furniture mfg .....	—	7	4	f	D	D	D	D	D	D	D	D	
337122	Nonupholstered wood household furniture mfg .....	—	5	4	f	D	D	D	D	D	D	D	D	
<b>FRANKLIN COUNTY, NC</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>55</b>	<b>26</b>		<b>2 259</b>	<b>67 251</b>	<b>1 859</b>	<b>3 578</b>	<b>43 946</b>	<b>259 098</b>	<b>190 339</b>	<b>444 570</b>	<b>14 311</b>
321	Wood product mfg .....	3	18	11	f	D	D	D	D	D	D	D	D	
<b>GASTON COUNTY, NC</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>492</b>	<b>195</b>		<b>31 175</b>	<b>863 240</b>	<b>25 139</b>	<b>52 240</b>	<b>617 062</b>	<b>2 758 229</b>	<b>3 039 648</b>	<b>5 772 680</b>	<b>198 591</b>
313	Textile mills .....	—	86	66		11 861	272 043	10 347	23 347	207 653	712 414	1 206 647	1 913 860	86 818
3131	Fiber, yarn, & thread mills .	—	42	35		7 320	153 943	6 533	15 027	128 479	329 641	654 171	984 588	64 256
31311	Fiber, yarn, & thread mills .....	—	42	35		7 320	153 943	6 533	15 027	128 479	329 641	654 171	984 588	64 256
313111	Yarn spinning mills ...	—	37	32	i	D	D	D	D	D	D	D	D	
3132	Fabric mills .....	2	19	13	g	D	D	D	D	D	D	D	D	
31324	Knit fabric mills .....	2	12	10	1 644	43 804	1 258	2 743	27 483	80 586	97 137	177 050	8 374	
313241	Weft knit fabric mills ..	6	9	7	g	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	
3133	Textile & fabric finishing & fabric coating mills .....	—	25	18	h	D	D	D	D	D	D	D	D	
31331	Textile & fabric finishing mills .....	—	24	17	h	D	D	D	D	D	D	D	D	
313312	Textile & fabric finishing mills .....	—	20	17		2 564	65 420	2 267	4 984	45 209	259 645	331 836	585 277	12 104
315	Apparel mfg .....	3	16	13		1 139	19 388	1 020	1 891	16 383	57 611	57 552	116 310	D
3151	Apparel knitting mills .....	1	8	6		784	12 941	706	1 388	11 230	45 402	40 770	87 405	D
323	Printing & related support activities.....	2	35	6		582	17 516	405	766	10 094	50 578	30 059	79 949	4 267
3231	Printing & related support activities.....	2	35	6		582	17 516	405	766	10 094	50 578	30 059	79 949	4 267
32311	Printing .....	2	34	6	f	D	D	D	D	D	D	D	D	
325	Chemical mfg .....	1	23	11		1 451	58 317	880	1 774	31 067	301 187	331 312	628 910	30 397
3259	Other chemical product mfg .....	—	4	2	f	D	D	D	D	D	D	D	D	
32599	All other chemical product & preparation mfg .....	—	4	2	f	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	
326	Plastics & rubber products mfg .....	—	20	10		622	19 034	477	992	11 156	41 776	33 302	76 075	2 374
327	Nonmetallic mineral product mfg .....	1	7	3		966	17 285	854	1 720	13 330	31 843	26 933	60 006	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	
327215	Glass product mfg made of purchased glass.....	—	1	1	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg .....	—	148	24		2 725	81 523	2 123	3 941	53 202	211 228	203 823	415 510	10 333
3322	Cutlery & handtool mfg ....	—	2	1	f	D	D	D	D	D	D	D	D	
33221	Cutlery & handtool mfg ..	—	2	1	f	D	D	D	D	D	D	D	D	
332212	Hand & edge tool mfg .	—	2	1	f	D	D	D	D	D	D	D	D	
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	105	8		822	24 500	628	1 098	15 880	45 914	19 677	66 422	D
33271	Machine shops.....	2	98	6		735	21 615	569	974	13 948	40 530	16 279	57 635	2 162
332710	Machine shops.....	2	98	6		735	21 615	569	974	13 948	40 530	16 279	57 635	2 162

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>GASTON COUNTY, NC</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—</b>												
	<b>Con.</b>												
333	Machinery mfg . . . . .	1	74	27	3 190	93 001	2 075	3 940	47 666	318 113	191 593	494 977	D
3331	Agriculture, construction, & mining machinery mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	1	50	16	1 481	46 983	933	1 867	23 791	89 562	81 675	171 331	D
33329	Other industrial machinery mfg . . . . .	1	50	16	1 481	46 983	933	1 867	23 791	89 562	81 675	171 331	D
333292	Textile machinery mfg . . . . .	1	44	13	1 340	42 168	838	1 691	21 359	82 932	76 654	159 613	D
334	Computer & electronic product mfg . . . . .	—	8	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg . . . . .	—	5	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg . . . . .	—	5	3	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	8	4	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . . . .	—	4	3	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	—	11	3	f	D	D	D	D	D	D	D	836
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	3	14	4	f	D	D	D	D	D	D	D	1 353
3399	Other miscellaneous mfg . . . . .	2	12	4	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg . . . . .	2	7	4	f	D	D	D	D	D	D	D	1 336
<b>GRAHAM COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>3</b>	<b>2</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>1 464</b>
337	Furniture & related product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
<b>GRANVILLE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>57</b>	<b>30</b>	<b>6 990</b>	<b>185 222</b>	<b>5 353</b>	<b>10 619</b>	<b>121 540</b>	<b>944 981</b>	<b>595 966</b>	<b>1 534 209</b>	<b>49 445</b>
313	Textile mills . . . . .	1	8	5	1 219	29 001	1 011	2 269	22 284	46 823	90 215	136 870	21 455
3133	Textile & fabric finishing & fabric coating mills . . . . .	3	4	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	4	2	f	D	D	D	D	D	D	D	2 244
3271	Clay product & refractory mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	10	4	615	18 749	410	753	12 240	64 114	28 924	92 099	2 134

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GRANVILLE COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg.....	—	8	2	f	D	D	D	D	D	D	D	D
	<b>GUILFORD COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing....</b>	<b>2</b>	<b>862</b>	<b>366</b>	<b>47 158</b>	<b>1 431 196</b>	<b>34 628</b>	<b>68 806</b>	<b>875 882</b>	<b>6 136 405</b>	<b>4 451 397</b>	<b>10 546 411</b>	<b>326 852</b>
311	Food mfg.....	—	27	16	1 648	42 666	881	1 806	18 250	165 540	250 825	415 224	12 120
3116	Meat product mfg.....	1	7	5	660	14 058	274	540	4 650	44 372	92 190	135 055	D
31161	Animal slaughtering & processing.....	1	7	5	660	14 058	274	540	4 650	44 372	92 190	135 055	D
312	Beverage & tobacco product mfg.....	9	5	2	g	D	D	D	D	D	D	D	D
3122	Tobacco mfg.....	9	1	1	g	D	D	D	D	D	D	D	D
31222	Tobacco product mfg...	9	1	1	g	D	D	D	D	D	D	D	D
312221	Cigarette mfg.....	9	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills.....	1	45	23	4 944	128 419	4 235	8 253	95 655	322 218	578 242	909 040	27 409
3132	Fabric mills.....	—	23	14	3 680	94 416	3 248	6 040	72 751	224 378	417 635	647 352	20 962
31321	Broadwoven fabric mills..	—	9	4	1 898	46 947	1 704	3 163	39 717	52 207	174 807	235 973	13 301
313210	Broadwoven fabric mills.....	—	9	4	1 898	46 947	1 704	3 163	39 717	52 207	174 807	235 973	13 301
31324	Knit fabric mills.....	—	10	8	1 625	43 280	1 423	2 578	30 566	161 881	232 384	392 437	7 449
313249	Other knit fabric & lace mills.....	—	6	6	1 483	38 581	1 327	2 372	28 400	152 051	214 344	364 621	D
3133	Textile & fabric finishing & fabric coating mills.....	2	20	7	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills.....	3	18	6	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills.....	2	16	5	560	16 732	428	917	10 827	55 570	110 905	167 969	D
314	Textile product mills.....	1	38	13	921	21 124	716	1 432	13 115	60 926	74 778	137 367	D
3149	Other textile product mills..	2	26	11	680	15 808	498	1 014	9 119	33 825	36 766	70 532	D
31499	All other textile product mills.....	2	22	9	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills..	2	21	9	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	2	26	16	g	D	D	D	D	D	D	D	2 496
3151	Apparel knitting mills.....	3	10	8	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills....	2	7	6	g	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills.....	2	6	6	1 036	21 300	928	1 965	16 449	47 000	34 296	81 015	D
321	Wood product mfg.....	2	28	15	g	D	D	D	D	D	D	D	4 440
3219	Other wood product mfg...	2	18	8	f	D	D	D	D	D	D	D	D
32191	Millwork.....	3	6	4	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	3	32	18	1 304	41 459	954	2 021	25 019	95 579	127 352	224 521	8 151
3222	Converted paper product mfg.....	3	32	18	1 304	41 459	954	2 021	25 019	95 579	127 352	224 521	8 151
32221	Paperboard container mfg.....	1	15	9	773	25 093	552	1 220	14 215	54 144	83 007	137 420	5 552
322211	Corrugated & solid fiber box mfg.....	1	10	6	568	18 094	388	830	9 323	38 814	57 179	96 207	4 264
323	Printing & related support activities.....	—	129	39	3 675	107 345	2 733	5 248	66 526	282 592	122 285	405 304	18 184
3231	Printing & related support activities.....	—	129	39	3 675	107 345	2 733	5 248	66 526	282 592	122 285	405 304	18 184
32311	Printing.....	—	104	27	2 934	87 935	2 126	4 111	53 777	242 500	115 251	357 801	15 830
323110	Commercial lithographic printing..	—	60	15	1 709	56 299	1 265	2 357	33 533	131 300	67 776	198 180	12 258
323116	Manifold business form printing.....	—	4	2	f	D	D	D	D	D	D	D	D
32312	Support activities for printing.....	2	25	12	741	19 410	607	1 137	12 749	40 092	7 034	47 503	2 354
325	Chemical mfg.....	—	52	29	5 295	202 387	3 254	6 574	96 312	1 933 360	1 017 243	2 926 911	79 354
3254	Pharmaceutical & medicine mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg.....	1	12	9	g	D	D	D	D	D	D	D	D
32551	Paint & coating mfg.....	1	10	8	g	D	D	D	D	D	D	D	12 626
325510	Paint & coating mfg...	1	10	8	g	D	D	D	D	D	D	D	12 626
3256	Soap, cleaning compound, & toilet preparation mfg..	—	10	8	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg.....	—	9	7	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg...	—	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg.	—	1	1	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GUILFORD COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3259	Other chemical product mfg .....	-	12	5	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	-	9	5	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	47	30	2 232	57 722	1 793	3 657	37 270	145 505	173 741	318 005	10 044
3261	Plastics product mfg .....	-	43	28	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg .....	-	13	11	826	18 718	690	1 221	12 616	41 282	67 203	107 832	2 883
326150	Urethane & other foam product (except polystyrene) mfg .....	-	13	11	826	18 718	690	1 221	12 616	41 282	67 203	107 832	2 883
32619	Other plastics product mfg .....	2	12	8	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	2	10	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	1	26	14	896	26 005	683	1 402	16 886	86 119	55 035	137 670	7 528
332	Fabricated metal product mfg .....	-	113	41	3 069	85 431	2 409	4 564	56 073	181 857	181 991	365 018	11 842
3323	Architectural & structural metals mfg .....	-	20	8	555	16 673	383	800	9 802	37 214	50 936	87 906	1 020
3326	Spring & wire product mfg .	1	9	5	503	10 045	420	715	7 499	28 889	38 517	66 730	D
33261	Spring & wire product mfg .....	1	9	5	503	10 045	420	715	7 499	28 889	38 517	66 730	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	40	10	675	21 347	542	1 025	13 722	36 494	14 823	51 349	D
33271	Machine shops .....	2	37	9	632	20 107	502	950	12 740	34 122	13 433	47 583	5 013
332710	Machine shops .....	2	37	9	632	20 107	502	950	12 740	34 122	13 433	47 583	5 013
333	Machinery mfg .....	-	54	17	2 973	113 525	1 622	3 352	49 734	223 907	354 762	584 252	13 975
3339	Other general-purpose machinery mfg .....	-	15	7	1 942	76 217	1 036	2 085	32 489	170 735	296 246	473 059	9 611
33391	Pump & compressor mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	24	15	h	D	D	D	D	D	D	D	51 071
3344	Semiconductor & other electronic component mfg .....	-	13	10	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	13	10	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	-	6	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	-	6	4	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	18	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	11	6	2 383	75 471	1 821	3 911	57 824	67 778	390 249	442 811	D
3362	Motor vehicle body & trailer mfg .....	-	5	3	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg .....	-	5	3	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg .....	-	5	3	g	D	D	D	D	D	D	D	D



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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GUILFORD COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg	-	118	46	7 051	168 186	5 688	11 310	119 693	309 299	271 303	581 001	21 166
3371	Household & institutional furniture & kitchen cabinet mfg	-	83	28	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	9	3	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg	-	9	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	74	25	h	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	44	20	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	29	16	3 489	74 521	2 719	5 152	49 750	139 112	118 841	258 845	14 162
33721	Office furniture (including fixtures) mfg	-	29	16	3 489	74 521	2 719	5 152	49 750	139 112	118 841	258 845	14 162
337211	Wood office furniture mfg	-	13	11	h	D	D	D	D	D	D	D	12 884
339	Miscellaneous mfg	-	62	15	1 584	48 407	1 014	1 870	24 218	112 961	106 322	218 438	5 810
3399	Other miscellaneous mfg	-	37	13	g	D	D	D	D	D	D	D	5 037
33999	All other miscellaneous mfg	-	10	5	f	D	D	D	D	D	D	D	3 619
	<b>HALIFAX COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing</b>	-	<b>59</b>	<b>28</b>	<b>4 136</b>	<b>113 700</b>	<b>3 442</b>	<b>5 469</b>	<b>84 186</b>	<b>211 435</b>	<b>348 574</b>	<b>567 720</b>	<b>55 518</b>
313	Textile mills	-	5	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	3	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg	7	7	7	501	6 697	424	681	4 909	9 262	6 502	16 945	265
322	Paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	3	3	542	14 211	437	846	8 535	38 833	22 049	60 756	D
	<b>HARNETT COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing</b>	<b>1</b>	<b>82</b>	<b>33</b>	<b>5 959</b>	<b>149 250</b>	<b>5 020</b>	<b>9 785</b>	<b>104 130</b>	<b>309 069</b>	<b>321 002</b>	<b>633 670</b>	<b>18 463</b>
313	Textile mills	-	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	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
315	Apparel mfg	2	6	4	532	8 130	485	858	6 583	31 681	5 720	37 655	D
3152	Cut & sew apparel mfg	2	5	4	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	9	6	712	16 377	622	1 121	10 410	33 796	42 188	76 291	1 396
3219	Other wood product mfg	-	5	4	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	3	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>HAYWOOD COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>49</b>	<b>13</b>	<b>3 321</b>	<b>130 249</b>	<b>2 645</b>	<b>5 402</b>	<b>97 554</b>	<b>178 730</b>	<b>537 315</b>	<b>726 272</b>	<b>D</b>
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
326	Plastics & rubber products mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	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
<b>HENDERSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>132</b>	<b>37</b>	<b>8 361</b>	<b>260 117</b>	<b>6 845</b>	<b>14 422</b>	<b>189 953</b>	<b>848 541</b>	<b>921 287</b>	<b>1 745 822</b>	<b>64 566</b>
313	Textile mills .....	1	4	4	1 182	35 420	993	2 222	25 836	95 374	157 464	248 254	9 178
314	Textile product mills .....	-	13	4	736	15 381	607	1 280	11 113	37 204	46 313	83 949	1 895
3141	Textile furnishings mills ....	-	8	3	621	13 491	520	1 121	9 811	34 387	41 860	76 777	1 690
31412	Curtain & linen mills .....	-	5	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	3	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	5	3	g	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
326130	Laminated plastics plate, sheet, & shape mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	1	26	4	500	18 066	361	716	10 558	33 260	35 868	68 462	1 991
335	Electrical equipment, appliance, & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	6	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	4	2	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg ....	-	2	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
337	Furniture & related product mfg .....	-	7	2	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
337211	Wood office furniture mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>HERTFORD COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>30</b>	<b>17</b>	<b>1 695</b>	<b>37 176</b>	<b>1 364</b>	<b>2 866</b>	<b>25 840</b>	<b>105 766</b>	<b>352 917</b>	<b>459 151</b>	<b>8 684</b>
331	Primary metal mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	4	4	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing .....	-	4	4	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>HOKE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>11</b>	<b>5</b>	<b>3 151</b>	<b>72 840</b>	<b>2 903</b>	<b>5 511</b>	<b>62 508</b>	<b>238 388</b>	<b>180 714</b>	<b>414 787</b>	<b>13 228</b>
311	Food mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
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
<b>IREDELL COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>263</b>	<b>121</b>	<b>16 978</b>	<b>476 537</b>	<b>12 941</b>	<b>26 975</b>	<b>304 597</b>	<b>1 288 969</b>	<b>1 922 924</b>	<b>3 172 642</b>	<b>118 836</b>
311	Food mfg .....	5	17	6	502	14 543	334	610	7 707	69 054	112 732	181 550	2 874
313	Textile mills .....	1	28	23	2 960	73 224	2 544	5 244	55 639	152 098	277 074	424 029	41 109
3131	Fiber, yarn, & thread mills .	-	3	3	544	11 731	508	1 117	10 605	13 854	28 191	41 894	D
31311	Fiber, yarn, & thread mills .....	-	3	3	544	11 731	508	1 117	10 605	13 854	28 191	41 894	D
3132	Fabric mills .....	1	18	14	2 046	52 047	1 754	3 616	39 762	125 464	232 545	353 524	39 999
31321	Broadwoven fabric mills .	-	5	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	5	2	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	4	7	7	526	11 683	462	928	9 211	32 797	38 691	69 348	333
314	Textile product mills .....	5	7	3	972	21 501	857	1 875	16 015	33 116	35 121	66 556	D
3141	Textile furnishings mills ....	5	4	3	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	5	4	3	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	9	5	1 091	26 301	714	1 514	12 940	99 878	360 636	460 035	2 341
3152	Cut & sew apparel mfg ....	-	6	4	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	15	7	591	17 109	458	876	9 676	41 637	69 684	109 179	2 137
326	Plastics & rubber products mfg .....	1	16	13	1 440	40 898	1 147	2 392	27 836	106 133	119 885	229 201	8 177
3261	Plastics product mfg .....	2	14	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	8	7	742	20 775	550	1 308	12 738	42 140	51 330	95 179	5 867
326199	All other plastics product mfg .....	1	8	7	742	20 775	550	1 308	12 738	42 140	51 330	95 179	5 867
331	Primary metal mfg .....	-	5	4	635	19 731	514	1 043	13 867	36 360	72 371	108 039	4 188
332	Fabricated metal product mfg .....	2	44	6	617	16 690	483	983	10 953	55 871	37 537	94 240	3 572
333	Machinery mfg .....	-	32	13	2 112	78 440	1 396	2 812	43 786	194 841	218 389	407 496	13 214
3331	Agriculture, construction, & mining machinery mfg. ....	-	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	5	3	671	23 296	503	955	14 860	58 249	47 700	102 088	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	5	3	671	23 296	503	955	14 860	58 249	47 700	102 088	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	8	3	846	26 526	465	923	12 510	174 609	69 549	212 016	4 945
3363	Motor vehicle parts mfg ...	-	2	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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>IREDELL COUNTY, NC</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—</b>												
	<b>Con.</b>												
337	Furniture & related product mfg .....	1	20	11	1 057	24 732	881	2 547	16 753	39 147	52 653	91 630	1 095
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	16	10	1 023	24 086	853	2 522	16 352	37 524	52 279	89 575	1 077
33712	Household & institutional furniture mfg .....	1	14	9	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	2	15	6	1 777	48 289	1 413	2 698	31 588	135 836	149 462	296 625	7 045
3391	Medical equipment & supplies mfg .....	—	9	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	9	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	4	6	4	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	9	3	3	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	9	2	2	f	D	D	D	D	D	D	D	D
<b>JACKSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>36</b>	<b>9</b>	<b>699</b>	<b>15 853</b>	<b>539</b>	<b>1 030</b>	<b>11 181</b>	<b>36 346</b>	<b>40 607</b>	<b>76 327</b>	<b>2 301</b>
<b>JOHNSTON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>114</b>	<b>45</b>	<b>6 588</b>	<b>192 096</b>	<b>4 713</b>	<b>8 946</b>	<b>111 239</b>	<b>682 402</b>	<b>937 585</b>	<b>1 622 280</b>	<b>74 102</b>
313	Textile mills .....	—	3	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	8	5	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	8	3	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	8	3	3	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	10	6	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
<b>LEE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>108</b>	<b>54</b>	<b>12 130</b>	<b>319 400</b>	<b>9 340</b>	<b>18 666</b>	<b>193 000</b>	<b>1 180 173</b>	<b>980 697</b>	<b>2 167 911</b>	<b>129 930</b>
311	Food mfg .....	—	4	2	1 639	34 903	1 498	2 639	27 329	75 104	114 248	189 736	2 896
3116	Meat product mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31183	Tortilla mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	—	10	10	1 171	34 915	1 054	2 349	23 048	51 941	139 655	192 515	D
3131	Fiber, yarn, & thread mills .	—	9	9	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	—	9	9	g	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	—	6	6	829	22 416	786	1 629	17 687	43 767	128 514	173 279	33 288
325	Chemical mfg .....	5	4	3	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	9	1	1	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ...	9	1	1	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg .	9	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	—	5	3	1 115	22 913	821	1 681	14 701	49 211	89 169	139 030	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	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg .....	—	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>LEE COUNTY, NC— Con. Manufacturing— Con.</b>												
332	Fabricated metal product mfg .....	-	15	5	928	29 143	788	1 546	22 146	53 583	96 267	143 297	D
3329	Other fabricated metal product mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
332998	Enameled iron & metal sanitary ware mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	16	7	1 181	38 649	761	1 700	17 662	83 132	87 198	169 052	9 406
335	Electrical equipment, appliance, & component mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>LENOIR COUNTY, NC Manufacturing ....</b>	-	<b>82</b>	<b>36</b>	<b>7 120</b>	<b>201 413</b>	<b>5 411</b>	<b>11 128</b>	<b>127 274</b>	<b>650 936</b>	<b>932 432</b>	<b>1 596 109</b>	<b>20 098</b>
311	Food mfg .....	-	4	2	630	12 602	516	1 067	9 406	7 921	21 267	30 014	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	7	6	1 250	37 400	639	1 229	11 186	108 059	205 885	319 677	D
3152	Cut & sew apparel mfg ....	-	3	3	f	D	D	D	D	D	D	D	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
325	Chemical mfg .....	-	6	2	g	D	D	D	D	D	D	D	282
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
335	Electrical equipment, appliance, & component mfg .....	-	4	4	899	24 543	750	1 755	18 153	72 142	91 839	164 603	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>LINCOLN COUNTY, NC Manufacturing ....</b>	1	<b>112</b>	<b>53</b>	<b>8 047</b>	<b>196 414</b>	<b>6 834</b>	<b>14 121</b>	<b>150 054</b>	<b>470 853</b>	<b>525 846</b>	<b>990 901</b>	<b>24 374</b>
313	Textile mills .....	2	19	16	2 926	62 152	2 593	5 616	50 961	129 417	167 382	292 219	7 730
3131	Fiber, yarn, & thread mills .	-	7	6	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	7	6	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	5	5	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	2	9	7	1 958	42 655	1 695	3 726	34 019	80 317	117 865	193 884	4 843
31324	Knit fabric mills .....	2	6	4	1 371	29 277	1 188	2 643	23 728	56 649	90 166	142 040	D
313241	Weft knit fabric mills ..	9	4	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
315	Apparel mfg .....	3	9	7	551	10 691	467	907	8 330	27 703	19 600	46 887	1 928
321	Wood product mfg .....	3	11	6	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	3	7	5	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	2	3	3	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	2	3	3	f	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>LINCOLN COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	-	20	4	665	28 692	557	1 136	23 055	50 361	76 221	125 879	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
337	Furniture & related product mfg .....	-	13	9	2 055	47 352	1 744	3 708	36 527	146 554	108 821	255 261	4 240
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	8	5	1 673	39 419	1 427	3 067	31 302	88 630	81 473	170 126	D
33712	Household & institutional furniture mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>MCDOWELL COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>63</b>	<b>31</b>	<b>6 084</b>	<b>140 861</b>	<b>5 186</b>	<b>10 639</b>	<b>109 862</b>	<b>382 489</b>	<b>476 777</b>	<b>866 330</b>	<b>40 509</b>
313	Textile mills .....	-	5	5	1 597	35 753	1 432	3 115	29 502	61 554	167 866	228 211	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
313113	Thread mills .....	-	1	1	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
31411	Carpet & rug mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	12	7	896	22 795	808	1 628	19 196	62 828	92 679	159 438	3 606
337	Furniture & related product mfg .....	-	8	4	1 451	30 499	1 248	2 453	26 207	77 680	45 474	121 186	1 835
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	8	4	1 451	30 499	1 248	2 453	26 207	77 680	45 474	121 186	1 835
33712	Household & institutional furniture mfg .....	-	4	4	1 436	30 214	1 236	2 434	25 998	77 161	45 089	120 281	D
337122	Nonupholstered wood household furniture mfg .....	-	4	4	1 436	30 214	1 236	2 434	25 998	77 161	45 089	120 281	D
<b>MACON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>34</b>	<b>10</b>	<b>1 358</b>	<b>32 469</b>	<b>1 134</b>	<b>2 332</b>	<b>23 617</b>	<b>98 010</b>	<b>82 932</b>	<b>174 716</b>	<b>9 927</b>
<b>MARTIN COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>22</b>	<b>8</b>	<b>1 902</b>	<b>40 646</b>	<b>1 673</b>	<b>4 370</b>	<b>30 339</b>	<b>96 360</b>	<b>210 419</b>	<b>307 855</b>	<b>2 169</b>
311	Food mfg .....	1	7	2	688	12 000	622	2 456	10 009	27 523	61 330	88 826	1 371
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
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	3	3	1 045	25 510	919	1 660	18 505	61 232	144 655	207 042	623
3132	Fabric mills .....	-	2	2	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	-	2	2	f	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills ..	-	1	1	f	D	D	D	D	D	D	D	D

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MECKLENBURG COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing</b>	<b>1</b>	<b>1 001</b>	<b>338</b>	<b>42 494</b>	<b>1 429 815</b>	<b>27 420</b>	<b>57 249</b>	<b>767 886</b>	<b>4 383 550</b>	<b>4 441 459</b>	<b>8 831 390</b>	<b>298 484</b>
311	Food mfg	-	39	15	6 781	205 606	2 938	6 886	70 635	632 154	520 012	1 157 156	43 215
3118	Bakeries & tortilla mfg	-	22	7	5 722	167 721	2 124	5 011	48 088	393 363	221 750	614 561	D
31181	Bread & bakery product mfg	-	18	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	11	3	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	4	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
3119	Other food mfg	-	8	5	f	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	3	2	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	3	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	6	3	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	6	3	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	5	3	f	D	D	D	D	D	D	D	D
313	Textile mills	4	32	11	1 088	25 553	875	1 744	17 891	48 547	50 135	99 705	4 933
3132	Fabric mills	4	18	9	825	19 842	694	1 438	14 796	37 006	42 278	79 446	4 174
314	Textile product mills	-	25	10	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	15	4	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	15	4	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	4	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg	1	16	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	27	21	2 112	71 328	1 613	3 448	47 360	176 911	171 353	347 224	10 825
3222	Converted paper product mfg	-	26	20	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	18	15	g	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	10	8	692	24 681	527	1 229	15 469	51 001	75 323	125 800	D
322212	Folding paperboard box mfg	-	5	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	199	40	3 657	131 865	2 626	5 294	84 009	256 648	193 622	449 898	39 297
3231	Printing & related support activities	1	199	40	3 657	131 865	2 626	5 294	84 009	256 648	193 622	449 898	39 297
32311	Printing	1	164	29	3 009	108 273	2 157	4 309	68 239	208 062	181 919	389 557	35 849
323110	Commercial lithographic printing	1	67	19	1 589	56 923	1 151	2 241	36 760	116 442	115 404	229 912	23 603
32312	Support activities for printing	1	35	11	648	23 592	469	985	15 770	48 586	11 703	60 341	3 448
323122	Prepress services	1	27	9	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	75	29	2 805	117 492	1 418	2 872	48 028	393 988	421 355	808 578	46 371
3251	Basic chemical mfg	2	11	5	f	D	D	D	D	D	D	D	17 608
32513	Dye & pigment mfg	-	5	2	f	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg	-	4	2	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	3	27	8	693	25 410	408	825	12 263	73 111	108 615	179 040	D
326	Plastics & rubber products mfg	1	49	24	4 999	167 742	3 709	6 954	106 136	552 228	484 644	1 034 151	44 921
3261	Plastics product mfg	2	37	18	2 668	82 877	1 862	3 503	45 908	242 339	262 079	512 335	26 330
32611	Unsupported plastics film, sheet, & bag mfg	2	8	5	602	20 355	464	970	13 940	83 058	99 806	183 446	3 060
326113	Unsupported plastics film & sheet (except packaging) mfg	1	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	20	7	1 302	38 836	805	1 447	17 097	81 129	68 681	157 346	12 557
326199	All other plastics product mfg	1	18	6	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	12	6	2 331	84 865	1 847	3 451	60 228	309 889	222 565	521 816	18 591
32621	Tire mfg	-	6	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
32622	Rubber & plastics hoses & belting mfg	-	5	4	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg	-	5	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	31	11	835	24 089	655	1 478	17 636	81 474	67 628	149 075	6 081
3273	Cement & concrete product mfg	4	16	9	f	D	D	D	D	D	D	D	5 570
331	Primary metal mfg	-	8	4	969	43 724	777	1 854	34 820	110 904	170 313	279 414	D
3315	Foundries	-	5	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MECKLENBURG COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	1	156	54	4 565	143 335	3 348	6 930	90 197	270 196	308 865	581 478	24 715
3321	Forging & stamping .....	2	14	7	542	16 947	426	879	11 465	34 377	23 902	57 999	2 194
33211	Forging & stamping .....	2	14	7	542	16 947	426	879	11 465	34 377	23 902	57 999	2 194
3323	Architectural & structural metals mfg .....	—	34	9	899	33 864	570	1 117	16 877	44 832	145 224	188 829	4 430
33231	Plate work & fabricated structural product mfg ..	—	11	5	671	27 131	404	784	12 637	30 659	129 710	159 129	D
332312	Fabricated structural metal mfg .....	—	10	5	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	47	9	f	D	D	D	D	D	D	D	3 272
33271	Machine shops .....	1	42	7	527	16 748	412	822	10 834	25 463	18 527	44 819	D
332710	Machine shops .....	1	42	7	527	16 748	412	822	10 834	25 463	18 527	44 819	D
3329	Other fabricated metal product mfg .....	—	24	10	1 130	30 201	747	1 481	18 185	58 311	52 231	113 254	7 212
33291	Metal valve mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	104	48	4 859	185 383	2 678	5 275	86 214	485 224	571 929	1 064 582	19 013
3332	Industrial machinery mfg ..	—	38	18	1 470	52 283	701	1 350	21 244	149 654	277 380	415 117	9 019
33329	Other industrial machinery mfg .....	—	33	15	1 266	45 931	576	1 089	17 892	130 568	267 184	387 795	D
333292	Textile machinery mfg ..	—	19	7	553	17 717	261	560	7 606	52 754	35 573	87 229	D
3336	Engine, turbine, & power transmission equipment mfg .....	—	8	5	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	8	5	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	—	22	14	1 280	45 423	673	1 320	18 571	111 665	149 275	261 918	3 630
33399	All other general-purpose machinery mfg .....	—	12	8	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	31	14	3 687	141 860	2 298	5 550	68 513	798 693	893 398	1 703 260	D
3344	Semiconductor & other electronic component mfg .....	—	11	5	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	—	11	5	h	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
336	Transportation equipment mfg .....	1	29	12	1 062	31 070	773	1 569	18 117	80 718	97 131	177 689	8 409
3363	Motor vehicle parts mfg ...	1	20	10	880	25 762	645	1 324	14 732	74 153	81 775	155 921	D
339	Miscellaneous mfg .....	2	88	18	1 551	49 652	1 023	1 925	23 619	107 090	94 493	195 508	6 838
3391	Medical equipment & supplies mfg .....	1	39	7	705	25 739	463	859	11 861	57 745	58 386	110 458	D
33911	Medical equipment & supplies mfg .....	1	39	7	705	25 739	463	859	11 861	57 745	58 386	110 458	D
3399	Other miscellaneous mfg ...	2	49	11	846	23 913	560	1 066	11 758	49 345	36 107	85 050	D
33999	All other miscellaneous mfg .....	3	16	6	517	15 236	386	709	8 141	34 063	28 267	62 022	D
<b>MITCHELL COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>32</b>	<b>9</b>	<b>1 868</b>	<b>37 078</b>	<b>1 706</b>	<b>3 185</b>	<b>30 632</b>	<b>64 465</b>	<b>80 475</b>	<b>151 377</b>	<b>6 314</b>
337	Furniture & related product mfg .....	—	6	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	6	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	—	5	2	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	—	4	1	f	D	D	D	D	D	D	D	D



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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MONTGOMERY COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>78</b>	<b>44</b>	<b>5 292</b>	<b>112 057</b>	<b>4 493</b>	<b>8 697</b>	<b>83 779</b>	<b>303 361</b>	<b>357 031</b>	<b>666 656</b>	<b>29 041</b>
313	Textile mills .....	-	5	5	815	17 326	746	1 447	14 354	45 669	33 385	78 815	5 395
3132	Fabric mills .....	-	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	25	16	2 023	36 964	1 809	3 298	30 016	80 095	61 263	150 312	3 917
3151	Apparel knitting mills .....	-	18	14	1 866	34 525	1 678	3 079	28 449	74 776	58 067	142 024	3 816
31511	Hosiery & sock mills ....	-	17	13	g	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	-	14	10	1 670	31 279	1 499	2 716	25 894	63 792	50 780	123 986	D
337	Furniture & related product mfg .....	-	11	7	818	14 080	638	1 259	10 526	33 755	38 075	71 498	1 573
<b>MOORE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>105</b>	<b>41</b>	<b>5 943</b>	<b>129 850</b>	<b>4 945</b>	<b>9 466</b>	<b>93 395</b>	<b>366 890</b>	<b>538 050</b>	<b>903 734</b>	<b>17 260</b>
313	Textile mills .....	2	11	9	609	16 031	464	995	9 794	28 141	44 537	74 454	2 872
3132	Fabric mills .....	3	7	6	531	13 783	410	882	8 389	20 538	35 547	57 530	D
314	Textile product mills .....	1	4	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ....	1	4	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	1	5	4	1 858	34 031	1 674	3 027	30 593	55 755	68 209	124 109	1 444
3151	Apparel knitting mills .....	-	3	3	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	-	2	2	g	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	2	9	3	689	13 503	631	1 349	11 162	41 114	38 941	80 514	1 739
3371	Household & institutional furniture & kitchen cabinet mfg .....	2	8	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	2	7	3	f	D	D	D	D	D	D	D	D
<b>NASH COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>104</b>	<b>52</b>	<b>9 879</b>	<b>267 810</b>	<b>7 876</b>	<b>16 603</b>	<b>190 616</b>	<b>860 389</b>	<b>854 758</b>	<b>1 721 814</b>	<b>55 067</b>
313	Textile mills .....	-	4	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	2	2	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	10	7	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	9	4	683	16 735	575	1 123	12 017	30 601	41 607	72 418	1 723
325	Chemical mfg .....	-	4	1	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	3	3	g	D	D	D	D	D	D	D	5 658
3261	Plastics product mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	16	8	1 339	38 509	951	2 059	23 646	90 883	84 550	173 825	D
3325	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW HANOVER COUNTY, NC</b>													
31-33	Manufacturing ....	-	203	54	8 378	338 818	5 922	12 507	211 425	1 615 206	1 108 216	2 698 180	D
325	Chemical mfg .....	-	14	7	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg .....	-	8	5	g	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg .....	-	4	3	1 455	70 661	1 136	2 350	49 959	306 331	152 362	470 199	D
325188	All other basic inorganic chemical mfg .....	-	4	3	1 455	70 661	1 136	2 350	49 959	306 331	152 362	470 199	D
327	Nonmetallic mineral product mfg .....	-	12	6	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .....	-	4	2	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	4	2	g	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass .....	-	4	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg .....	3	13	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	7	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	-	1	1	g	D	D	D	D	D	D	D	D
<b>NORTHAMPTON COUNTY, NC</b>													
31-33	Manufacturing ....	2	13	8	749	20 532	601	1 242	14 508	84 297	147 107	233 012	4 679
<b>ONSLow COUNTY, NC</b>													
31-33	Manufacturing ....	-	37	12	1 829	37 731	1 554	3 169	29 201	169 443	180 009	346 411	D
311	Food mfg .....	1	3	2	f	D	D	D	D	D	D	D	D
<b>ORANGE COUNTY, NC</b>													
31-33	Manufacturing ....	1	78	15	1 209	34 045	913	1 769	21 487	69 733	71 841	142 060	5 751
<b>PASQUOTANK COUNTY, NC</b>													
31-33	Manufacturing ....	1	31	11	884	18 458	698	1 238	12 576	75 214	77 848	148 556	6 905
<b>PENDER COUNTY, NC</b>													
31-33	Manufacturing ....	-	39	12	1 123	24 299	902	1 722	17 302	41 262	90 357	135 810	2 731
<b>PERSON COUNTY, NC</b>													
31-33	Manufacturing ....	-	39	19	5 138	135 484	4 048	9 115	95 619	471 603	613 132	1 084 827	40 144
313	Textile mills .....	-	4	4	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
314	Textile product mills .....	-	3	2	f	D	D	D	D	D	D	D	258
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
321	Wood product mfg .....	-	5	3	750	19 790	574	1 038	14 026	40 370	97 090	137 289	D
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
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg ....	-	1	1	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>PITT COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>119</b>	<b>50</b>	<b>9 305</b>	<b>280 849</b>	<b>6 985</b>	<b>13 886</b>	<b>174 479</b>	<b>1 707 304</b>	<b>1 027 491</b>	<b>2 741 904</b>	<b>112 077</b>
313	Textile mills . . . . .	-	6	4	g	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	-	4	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	-	7	5	1 589	49 141	1 299	2 884	35 388	154 076	264 267	414 016	13 504
3339	Other general-purpose machinery mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
334113	Computer terminal mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	8	6	1 114	31 156	825	1 584	19 551	93 650	102 767	191 720	D
3363	Motor vehicle parts mfg . . . . .	-	3	3	626	20 103	427	937	13 551	73 044	56 319	125 289	D
339	Miscellaneous mfg . . . . .	-	11	2	g	D	D	D	D	D	D	D	1 952
3399	Other miscellaneous mfg . . . . .	-	4	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>POLK COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>2</b>	<b>25</b>	<b>10</b>	<b>904</b>	<b>19 933</b>	<b>771</b>	<b>1 520</b>	<b>15 003</b>	<b>72 245</b>	<b>80 999</b>	<b>150 923</b>	<b>6 926</b>
313	Textile mills . . . . .	3	6	5	655	14 978	589	1 201	11 919	51 559	66 818	117 969	5 625
<b>RANDOLPH COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>411</b>	<b>178</b>	<b>24 954</b>	<b>559 806</b>	<b>20 933</b>	<b>38 249</b>	<b>410 727</b>	<b>1 853 689</b>	<b>1 775 211</b>	<b>3 612 670</b>	<b>112 500</b>
311	Food mfg . . . . .	1	11	6	659	16 237	536	911	11 026	105 255	108 405	214 092	4 164
313	Textile mills . . . . .	1	21	14	2 562	62 997	2 232	5 051	47 038	144 842	204 625	359 354	D
3132	Fabric mills . . . . .	1	13	11	2 162	53 634	1 894	4 279	40 795	117 371	154 112	282 279	D
31321	Broadwoven fabric mills . . . . .	-	5	3	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	-	5	3	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills . . . . .	5	6	6	833	18 123	701	1 497	14 044	45 875	31 070	77 923	D
315	Apparel mfg . . . . .	1	42	25	3 655	67 278	3 041	5 436	46 673	132 653	166 417	303 070	6 640
3151	Apparel knitting mills . . . . .	-	28	18	h	D	D	D	D	D	D	D	6 326
31511	Hosiery & sock mills . . . . .	-	24	15	h	D	D	D	D	D	D	D	5 298
315111	Sheer hosiery mills . . . . .	-	15	9	g	D	D	D	D	D	D	D	3 558
315119	Other hosiery & sock mills . . . . .	-	9	6	f	D	D	D	D	D	D	D	1 740
3152	Cut & sew apparel mfg . . . . .	5	9	5	f	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	3	37	12	820	15 275	696	1 185	11 416	33 901	53 520	85 310	3 773

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>RANDOLPH COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	-	30	15	2 156	51 998	1 800	3 472	36 731	129 964	167 214	298 474	19 408
3261	Plastics product mfg .....	-	25	13	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg .....	1	5	4	660	13 546	586	1 069	10 365	31 698	49 008	81 281	1 744
326150	Urethane & other foam product (except polystyrene) mfg .....	1	5	4	660	13 546	586	1 069	10 365	31 698	49 008	81 281	1 744
32619	Other plastics product mfg .....	-	10	5	1 011	24 810	807	1 544	16 347	66 757	51 320	118 309	7 719
326199	All other plastics product mfg .....	-	10	5	1 011	24 810	807	1 544	16 347	66 757	51 320	118 309	7 719
332	Fabricated metal product mfg .....	-	41	8	969	28 439	735	1 427	17 617	81 783	68 780	151 072	D
335	Electrical equipment, appliance, & component mfg .....	-	5	5	h	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	106	57	8 205	161 238	7 039	12 009	126 353	393 496	412 322	802 919	16 731
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	67	32	i	D	D	D	D	D	D	D	13 675
33712	Household & institutional furniture mfg .....	-	56	31	i	D	D	D	D	D	D	D	13 107
337121	Upholstered household furniture mfg .....	-	39	23	5 753	110 436	5 050	8 439	91 502	292 421	312 286	602 315	11 560
337122	Nonupholstered wood household furniture mfg .....	-	14	7	f	D	D	D	D	D	D	D	1 518
3372	Office furniture (including fixtures) mfg .....	2	34	23	g	D	D	D	D	D	D	D	3 028
33721	Office furniture (including fixtures) mfg .....	2	34	23	g	D	D	D	D	D	D	D	3 028
337211	Wood office furniture mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg .....	1	24	15	843	16 962	699	1 245	12 212	27 639	24 103	51 847	1 233
339	Miscellaneous mfg .....	-	13	3	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>RICHMOND COUNTY, NC</b>												
	<b>Manufacturing .....</b>	-	<b>58</b>	<b>25</b>	<b>4 814</b>	<b>114 546</b>	<b>4 033</b>	<b>8 013</b>	<b>88 969</b>	<b>384 396</b>	<b>308 608</b>	<b>719 715</b>	<b>15 188</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	4	4	1 190	29 131	881	1 842	21 119	97 949	129 221	227 323	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	1 288	33 457	1 193	2 462	29 534	50 339	33 437	111 110	657
3151	Apparel knitting mills .....	-	4	4	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	-	2	2	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	7	6	550	13 418	448	836	9 518	41 770	50 034	90 708	4 847

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ROBESON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>96</b>	<b>50</b>	<b>11 890</b>	<b>264 008</b>	<b>10 112</b>	<b>20 314</b>	<b>194 256</b>	<b>1 305 280</b>	<b>1 094 613</b>	<b>2 407 922</b>	<b>40 820</b>
311	Food mfg.....	-	8	5	g	D	D	D	D	D	D	D	11 900
3114	Fruit & vegetable preserving & specialty food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning.....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	1	5	2	560	10 200	503	1 046	8 851	47 939	67 927	115 860	D
31161	Animal slaughtering & processing.....	1	5	2	560	10 200	503	1 046	8 851	47 939	67 927	115 860	D
3119	Other food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31199	All other food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills.....	-	16	12	3 048	63 224	2 515	5 101	45 604	189 275	257 327	448 716	9 771
3131	Fiber, yarn, & thread mills .	-	3	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills.....	-	3	2	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	3	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	11	9	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills.....	-	8	7	1 936	39 997	1 553	3 189	28 039	151 312	193 337	347 303	3 926
313241	Weft knit fabric mills ..	-	8	7	1 936	39 997	1 553	3 189	28 039	151 312	193 337	347 303	3 926
315	Apparel mfg.....	2	17	15	2 664	41 384	2 385	4 735	34 701	145 906	164 129	315 394	2 949
3151	Apparel knitting mills.....	-	4	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
315111	Sheer hosiery mills ...	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	3	13	13	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	4	6	6	958	13 938	849	1 504	11 660	47 973	67 254	121 003	1 892
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	3	4	4	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	7	4	f	D	D	D	D	D	D	D	636
3219	Other wood product mfg...	-	5	3	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	10	3	1 027	23 626	940	1 886	20 164	61 802	102 553	163 406	3 601
3323	Architectural & structural metals mfg.....	-	4	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ROCKINGHAM COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>124</b>	<b>64</b>	<b>13 958</b>	<b>386 995</b>	<b>11 643</b>	<b>23 494</b>	<b>297 248</b>	<b>1 169 048</b>	<b>2 029 645</b>	<b>3 214 369</b>	<b>114 145</b>
312	Beverage & tobacco product mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
31212	Breweries.....	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries.....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills.....	-	24	22	5 069	121 553	4 463	8 942	98 334	349 532	995 068	1 362 412	67 438
3131	Fiber, yarn, & thread mills .	-	17	17	4 103	101 433	3 590	7 369	81 366	305 307	868 771	1 192 275	62 813
31311	Fiber, yarn, & thread mills.....	-	17	17	4 103	101 433	3 590	7 369	81 366	305 307	868 771	1 192 275	62 813
313111	Yarn spinning mills ...	-	6	6	g	D	D	D	D	D	D	D	11 812
313112	Yarn texturing, throwing, & twisting mills.....	-	10	10	2 728	68 035	2 368	4 550	54 289	223 265	626 912	868 999	D
3132	Fabric mills.....	-	6	5	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	3	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	3	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ROCKINGHAM COUNTY, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
314	Textile product mills . . . . .	—	7	5	2 081	43 147	1 681	3 313	36 083	111 743	134 006	245 836	998
3141	Textile furnishings mills . . . . .	—	5	3	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills . . . . .	—	4	2	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
3149	Other textile product mills . . . . .	1	2	2	f	D	D	D	D	D	D	D	D
31499	All other textile product mills . . . . .	1	2	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills . . . . .	1	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	—	7	6	1 821	45 033	1 563	3 019	34 614	106 750	183 049	291 690	D
3151	Apparel knitting mills . . . . .	—	4	3	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	—	7	5	919	26 014	757	1 819	17 824	37 436	44 538	80 143	5 383
3262	Rubber product mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	7	4	515	12 331	447	822	9 655	34 917	20 062	54 911	2 033
332	Fabricated metal product mfg . . . . .	—	18	6	712	26 881	528	1 215	19 820	69 774	159 541	227 491	7 172
	<b>ROWAN COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . . .</b>	—	<b>201</b>	<b>104</b>	<b>14 324</b>	<b>413 818</b>	<b>11 907</b>	<b>24 391</b>	<b>316 346</b>	<b>1 506 095</b>	<b>2 174 439</b>	<b>3 677 912</b>	<b>94 422</b>
313	Textile mills . . . . .	1	17	15	3 007	71 099	2 690	5 594	59 376	190 905	225 022	420 135	18 731
3131	Fiber, yarn, & thread mills . . . . .	2	8	8	1 159	21 062	1 064	1 946	18 486	81 198	103 557	185 899	12 979
31311	Fiber, yarn, & thread mills . . . . .	2	8	8	1 159	21 062	1 064	1 946	18 486	81 198	103 557	185 899	12 979
313111	Yarn spinning mills . . . . .	2	8	8	1 159	21 062	1 064	1 946	18 486	81 198	103 557	185 899	12 979
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
321	Wood product mfg . . . . .	—	19	6	687	17 282	622	1 166	15 184	36 769	69 914	105 829	D
3219	Other wood product mfg . . . . .	—	14	4	568	14 630	534	1 018	13 423	31 911	59 932	91 316	D
32199	All other wood product mfg . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	1	13	8	g	D	D	D	D	D	D	D	19 625
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 . . . . .	—	13	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	22	11	952	26 741	775	1 512	18 415	102 224	60 955	162 843	10 689
3271	Clay product & refractory mfg . . . . .	—	8	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	29	7	f	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	—	13	9	882	28 351	551	1 125	16 907	54 178	60 054	114 556	D
336	Transportation equipment mfg . . . . .	—	11	5	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>RUTHERFORD COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>97</b>	<b>48</b>	<b>11 480</b>	<b>278 595</b>	<b>9 409</b>	<b>18 347</b>	<b>198 540</b>	<b>524 149</b>	<b>983 103</b>	<b>1 514 162</b>	<b>55 782</b>
311	Food mfg.....	-	7	3	581	11 382	503	830	8 972	12 766	61 976	76 555	790
313	Textile mills .....	-	14	11	5 454	137 923	4 655	9 089	104 740	205 913	547 530	755 824	34 089
3132	Fabric mills .....	-	7	5	h	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	6	5	3 818	99 386	3 256	6 334	75 962	111 970	410 891	527 511	D
313210	Broadwoven fabric mills .....	-	6	5	3 818	99 386	3 256	6 334	75 962	111 970	410 891	527 511	D
3133	Textile & fabric finishing & fabric coating mills .....	1	5	4	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	2	4	3	f	D	D	D	D	D	D	D	8 405
313311	Broadwoven fabric finishing mills .....	1	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	-	2	1	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	-	1	1	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 .....	-	1	1	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	12	11	g	D	D	D	D	D	D	D	5 384
3261	Plastics product mfg .....	-	11	10	g	D	D	D	D	D	D	D	5 384
32619	Other plastics product mfg .....	-	10	9	1 131	24 680	972	2 063	18 639	68 666	52 330	121 490	D
326199	All other plastics product mfg .....	-	10	9	1 131	24 680	972	2 063	18 639	68 666	52 330	121 490	D
332	Fabricated metal product mfg .....	-	12	3	620	12 667	520	1 147	9 183	45 704	70 680	112 164	D
3329	Other fabricated metal product mfg .....	-	4	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
337	Furniture & related product mfg .....	-	6	2	f	D	D	D	D	D	D	D	D
<b>SAMPSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>61</b>	<b>29</b>	<b>4 202</b>	<b>102 390</b>	<b>3 176</b>	<b>6 452</b>	<b>59 902</b>	<b>207 601</b>	<b>560 383</b>	<b>768 477</b>	<b>14 903</b>
311	Food mfg.....	-	7	4	1 341	34 789	999	2 395	22 569	55 741	380 335	435 252	D
3116	Meat product mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	3	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	9	6	622	8 311	511	834	5 534	33 977	20 853	54 078	656
3152	Cut & sew apparel mfg ....	-	9	6	622	8 311	511	834	5 534	33 977	20 853	54 078	656
333	Machinery mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	3	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg .....	-	3	2	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>SCOTLAND COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>59</b>	<b>35</b>	<b>8 534</b>	<b>233 982</b>	<b>7 422</b>	<b>16 100</b>	<b>174 926</b>	<b>716 143</b>	<b>826 344</b>	<b>1 533 308</b>	<b>53 124</b>
313	Textile mills .....	1	8	7	1 651	41 579	1 467	3 233	34 379	77 835	112 833	193 514	6 970
3131	Fiber, yarn, & thread mills .	-	3	3	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	3	3	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	2	4	4	1 037	28 395	911	2 011	23 680	53 313	77 249	133 429	5 399
31321	Broadwoven fabric mills .	2	4	4	1 037	28 395	911	2 011	23 680	53 313	77 249	133 429	5 399
313210	Broadwoven fabric mills .....	2	4	4	1 037	28 395	911	2 011	23 680	53 313	77 249	133 429	5 399
314	Textile product mills .....	2	4	4	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 .....	-	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
321	Wood product mfg .....	-	8	6	879	22 885	774	1 606	18 352	50 641	99 371	150 298	1 415
3219	Other wood product mfg ...	-	7	5	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	5	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
327211	Flat glass mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	7	4	660	20 580	485	1 110	11 135	78 153	87 178	165 946	D
3363	Motor vehicle parts mfg ...	-	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>STANLY COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>124</b>	<b>60</b>	<b>8 086</b>	<b>210 303</b>	<b>6 544</b>	<b>13 760</b>	<b>152 120</b>	<b>547 139</b>	<b>629 769</b>	<b>1 167 548</b>	<b>53 212</b>
313	Textile mills .....	-	16	12	1 919	44 586	1 681	3 897	35 794	124 505	101 477	227 440	22 970
3131	Fiber, yarn, & thread mills .	-	4	3	792	18 948	681	1 681	15 021	47 720	57 684	106 552	7 705
31311	Fiber, yarn, & thread mills .....	-	4	3	792	18 948	681	1 681	15 021	47 720	57 684	106 552	7 705
313111	Yarn spinning mills ...	-	4	3	792	18 948	681	1 681	15 021	47 720	57 684	106 552	7 705
3133	Textile & fabric finishing & fabric coating mills .....	-	5	4	874	21 698	790	1 810	17 562	67 242	38 061	105 672	D
31331	Textile & fabric finishing mills .....	-	5	4	874	21 698	790	1 810	17 562	67 242	38 061	105 672	D
314	Textile product mills .....	-	7	5	913	18 141	835	1 641	15 301	38 264	92 496	129 998	D
3141	Textile furnishings mills ....	-	5	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	25	15	1 266	23 089	992	2 019	13 872	42 587	30 405	71 678	621
3151	Apparel knitting mills .....	-	12	6	814	14 682	646	1 404	9 079	30 640	23 185	51 850	479
31519	Other apparel knitting mills .....	1	6	1	635	11 870	554	1 194	7 531	25 149	16 512	39 684	D
315191	Outerwear knitting mills .....	1	6	1	635	11 870	554	1 194	7 531	25 149	16 512	39 684	D
321	Wood product mfg .....	-	14	6	1 327	38 119	1 032	2 144	26 882	92 436	131 107	222 744	2 848
3219	Other wood product mfg ...	-	11	5	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	-	5	4	1 185	32 717	919	1 894	23 630	68 586	107 479	175 440	643
321991	Manufactured home (mobile home) mfg ..	-	4	4	g	D	D	D	D	D	D	D	643
326	Plastics & rubber products mfg .....	-	5	3	670	23 653	584	1 185	20 601	48 132	45 066	89 750	D
3262	Rubber product mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
32621	Tire mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>STOKES COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>33</b>	<b>11</b>	<b>1 218</b>	<b>36 950</b>	<b>958</b>	<b>2 014</b>	<b>21 866</b>	<b>75 125</b>	<b>93 947</b>	<b>167 728</b>	<b>D</b>
331	Primary metal mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying ...	-	1	1	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	-	1	1	f	D	D	D	D	D	D	D	D



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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>SURRY COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>149</b>	<b>65</b>	<b>14 915</b>	<b>300 052</b>	<b>13 186</b>	<b>27 052</b>	<b>238 495</b>	<b>762 303</b>	<b>969 447</b>	<b>1 697 308</b>	<b>58 182</b>
311	Food mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	-	10	6	2 477	52 700	2 178	4 970	43 088	112 056	298 207	410 084	8 482
3132	Fabric mills . . . . .	-	5	3	1 768	38 298	1 546	3 721	31 349	81 456	166 328	247 993	5 184
31321	Broadwoven fabric mills . . . . .	-	2	1	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	-	2	1	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	-	42	25	6 960	128 619	6 257	12 907	106 220	321 458	282 408	575 498	14 165
3151	Apparel knitting mills . . . . .	-	26	17	5 686	108 618	5 193	10 926	91 382	267 212	207 788	445 832	12 441
31511	Hosiery & sock mills . . . . .	-	22	13	3 984	73 347	3 720	7 931	63 690	162 447	111 643	253 920	9 443
315119	Other hosiery & sock mills . . . . .	-	22	13	3 984	73 347	3 720	7 931	63 690	162 447	111 643	253 920	9 443
31519	Other apparel knitting mills . . . . .	1	4	4	1 702	35 271	1 473	2 995	27 692	104 765	96 145	191 912	2 998
315191	Outerwear knitting mills . . . . .	2	3	3	f	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	-	15	8	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	-	5	3	f	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	-	8	4	1 102	20 099	1 055	2 158	18 484	48 571	42 228	89 840	1 144
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	-	7	4	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg . . . . .	-	5	4	1 081	19 860	1 038	2 142	18 320	48 173	41 883	89 094	D
337122	Nonupholstered wood household furniture mfg . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	-	8	3	667	12 084	546	787	6 354	45 353	22 960	67 547	D
3399	Other miscellaneous mfg . . . . .	-	6	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>TRANSYLVANIA COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>6</b>	<b>28</b>	<b>10</b>	<b>3 071</b>	<b>119 324</b>	<b>2 337</b>	<b>5 076</b>	<b>79 708</b>	<b>435 503</b>	<b>276 064</b>	<b>715 127</b>	<b>27 388</b>
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
325	Chemical mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>UNION COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>228</b>	<b>90</b>	<b>13 113</b>	<b>356 856</b>	<b>10 261</b>	<b>20 117</b>	<b>223 607</b>	<b>1 256 260</b>	<b>1 321 735</b>	<b>2 543 492</b>	<b>94 110</b>
311	Food mfg.....	-	12	6	2 092	40 027	1 943	4 040	30 974	282 603	308 844	597 547	2 567
3116	Meat product mfg.....	-	6	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	6	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	5	3	g	D	D	D	D	D	D	D	D
313	Textile mills.....	1	6	4	593	13 814	504	1 012	10 885	46 756	97 461	142 373	5 064
315	Apparel mfg.....	1	14	9	905	14 949	815	1 420	10 796	28 238	49 430	76 906	888
321	Wood product mfg.....	-	17	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	22	5	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	2	22	5	f	D	D	D	D	D	D	D	D
32311	Printing.....	2	22	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	14	7	1 013	26 785	859	1 592	20 808	74 075	136 966	196 603	22 833
3261	Plastics product mfg.....	-	12	6	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
326122	Plastics pipe & pipe fitting mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	1	1	g	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding.....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	48	11	1 311	40 934	1 025	2 099	28 283	103 079	56 034	158 271	9 907
333	Machinery mfg.....	-	18	9	941	34 395	526	990	14 457	84 672	57 478	138 471	15 918
3332	Industrial machinery mfg ..	-	8	5	587	19 198	347	636	8 546	54 576	41 393	90 572	D
33329	Other industrial machinery mfg.....	-	8	5	587	19 198	347	636	8 546	54 576	41 393	90 572	D
333292	Textile machinery mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	3	7	6	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	3	6	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	9	3	f	D	D	D	D	D	D	D	D
<b>VANCE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>53</b>	<b>32</b>	<b>5 085</b>	<b>119 204</b>	<b>4 217</b>	<b>8 598</b>	<b>80 916</b>	<b>464 552</b>	<b>777 935</b>	<b>1 217 961</b>	<b>24 004</b>
313	Textile mills.....	-	7	6	1 104	25 417	1 006	2 242	21 169	57 463	117 018	175 664	D
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
313111	Yarn spinning mills ...	-	3	3	f	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	3	3	625	9 913	559	949	7 293	14 202	5 742	19 929	374
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
315	Apparel mfg.....	-	4	4	861	20 134	722	1 507	10 582	47 157	28 992	73 759	D
3151	Apparel knitting mills.....	-	4	4	861	20 134	722	1 507	10 582	47 157	28 992	73 759	D
31511	Hosiery & sock mills.....	-	3	3	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	4	8	5	624	12 583	484	924	8 997	39 310	83 189	121 267	1 448

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WAKE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>639</b>	<b>173</b>	<b>23 789</b>	<b>784 696</b>	<b>15 855</b>	<b>30 013</b>	<b>388 315</b>	<b>6 075 313</b>	<b>4 428 544</b>	<b>10 419 983</b>	<b>173 859</b>
311	Food mfg .....	-	25	7	2 408	64 505	1 974	3 389	45 881	149 812	312 615	460 136	16 742
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	12	3	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	2	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	6	12	8	f	D	D	D	D	D	D	D	577
3152	Cut & sew apparel mfg ....	6	8	7	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	3	26	11	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	125	15	1 380	37 045	1 014	1 832	23 896	78 340	55 388	133 283	6 385
3231	Printing & related support activities .....	2	125	15	1 380	37 045	1 014	1 832	23 896	78 340	55 388	133 283	6 385
32311	Printing .....	2	111	14	g	D	D	D	D	D	D	D	6 249
323110	Commercial lithographic printing ..	2	60	10	806	24 437	578	1 155	15 921	47 182	31 800	78 709	2 935
325	Chemical mfg .....	-	22	13	g	D	D	D	D	D	D	D	44 191
3254	Pharmaceutical & medicine mfg .....	-	8	7	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	8	7	g	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg .....	-	3	3	847	38 983	649	1 389	24 984	119 697	127 930	261 815	D
325412	Pharmaceutical preparation mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	21	11	1 480	50 465	894	1 957	21 105	232 080	113 677	342 214	9 904
3261	Plastics product mfg .....	-	19	11	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	-	13	9	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	-	12	9	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	1	38	9	544	16 406	437	847	11 492	52 800	57 721	111 459	8 116
332	Fabricated metal product mfg .....	-	73	23	2 606	90 653	1 922	4 030	53 713	237 546	142 614	381 256	16 260
3323	Architectural & structural metals mfg .....	-	20	9	f	D	D	D	D	D	D	D	3 895
33232	Ornamental & architectural metal products mfg .....	-	16	7	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg ..	-	12	7	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg .....	-	10	5	f	D	D	D	D	D	D	D	6 396
33291	Metal valve mfg .....	-	5	4	556	19 317	352	714	9 275	70 793	32 129	102 630	6 160
333	Machinery mfg .....	1	35	9	f	D	D	D	D	D	D	D	6 434
334	Computer & electronic product mfg .....	-	79	31	i	D	D	D	D	D	D	D	31 924
3341	Computer & peripheral equipment mfg .....	-	15	4	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	-	15	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	-	11	8	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	6	5	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	6	5	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WAKE COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	-	27	12	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	27	12	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	1	7	6	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	-	21	7	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	-	21	7	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	19	9	2 407	96 976	1 206	2 505	32 072	262 549	458 709	725 084	16 756
3353	Electrical equipment mfg ..	-	10	5	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	10	5	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	-	5	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	8	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	6	63	9	f	D	D	D	D	D	D	D	2 558
<b>WARREN COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>13</b>	<b>9</b>	<b>813</b>	<b>15 310</b>	<b>757</b>	<b>1 435</b>	<b>13 587</b>	<b>36 558</b>	<b>60 314</b>	<b>95 545</b>	<b>6 171</b>
<b>WASHINGTON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>15</b>	<b>7</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
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
<b>WATAUGA COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>56</b>	<b>9</b>	<b>1 223</b>	<b>24 762</b>	<b>1 014</b>	<b>1 622</b>	<b>18 322</b>	<b>54 539</b>	<b>41 548</b>	<b>97 431</b>	<b>3 034</b>
<b>WAYNE COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>101</b>	<b>44</b>	<b>9 495</b>	<b>231 053</b>	<b>7 597</b>	<b>12 716</b>	<b>159 152</b>	<b>646 669</b>	<b>762 695</b>	<b>1 417 451</b>	<b>47 660</b>
311	Food mfg .....	1	13	7	3 820	84 799	2 980	3 136	53 534	248 070	351 013	603 620	19 587
3114	Fruit & vegetable preserving & specialty food mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	2	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	-	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	6	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	6	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	9	2	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	6	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	6	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	6	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	6	4	580	7 315	481	950	6 355	3 597	18 602	22 309	D
321	Wood product mfg .....	-	9	5	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WAYNE COUNTY, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	4	4	748	25 103	577	1 212	17 108	74 404	49 498	120 689	5 874
3353	Electrical equipment mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>WILKES COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>108</b>	<b>40</b>	<b>8 082</b>	<b>168 069</b>	<b>7 025</b>	<b>13 423</b>	<b>129 358</b>	<b>403 730</b>	<b>672 244</b>	<b>1 081 153</b>	<b>16 707</b>
311	Food mfg .....	-	7	6	h	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	4	4	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	3	13	11	1 996	35 367	1 803	3 298	28 836	62 942	96 115	168 156	2 976
3151	Apparel knitting mills .....	5	4	4	f	D	D	D	D	D	D	D	2 265
31511	Hosiery & sock mills .....	1	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg .....	-	5	5	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg .....	-	3	3	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
321	Wood product mfg .....	-	23	6	998	23 600	860	1 562	18 761	111 188	68 085	174 340	3 877
327	Nonmetallic mineral product mfg .....	-	10	2	715	13 536	564	1 098	8 967	34 645	41 325	75 932	2 529
3272	Glass & glass product mfg ..	-	5	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass .....	-	5	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	7	5	1 114	26 418	951	1 904	20 020	47 901	48 093	97 939	1 117
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	7	5	1 114	26 418	951	1 904	20 020	47 901	48 093	97 939	1 117
33712	Household & institutional furniture mfg .....	-	6	5	g	D	D	D	D	D	D	D	1 117
337122	Nonupholstered wood household furniture mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>WILSON COUNTY, NC</b>													
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>96</b>	<b>39</b>	<b>8 954</b>	<b>288 119</b>	<b>7 218</b>	<b>14 940</b>	<b>195 795</b>	<b>2 605 937</b>	<b>2 388 685</b>	<b>4 980 319</b>	<b>103 639</b>
312	Beverage & tobacco product mfg .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
3122	Tobacco mfg .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
31221	Tobacco stemming & redrying .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
312210	Tobacco stemming & redrying .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
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
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>WILSON COUNTY, NC</b> <b>—Con.</b>												
	<b>Manufacturing—</b> <b>Con.</b>												
326	Plastics & rubber products mfg .....	-	10	7	2 631	95 100	2 241	4 468	74 592	229 547	231 724	457 507	29 390
3261	Plastics product mfg .....	1	7	5	f	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) .....	-	2	1	g	D	D	D	D	D	D	D	D
	<b>YADKIN COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>43</b>	<b>17</b>	<b>3 616</b>	<b>94 502</b>	<b>3 068</b>	<b>6 148</b>	<b>68 172</b>	<b>231 671</b>	<b>551 579</b>	<b>787 309</b>	<b>D</b>
313	Textile mills .....	-	4	3	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	2	2	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	2	2	g	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	-	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	-	3	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	-	1	1	f	D	D	D	D	D	D	D	D
	<b>YANCEY COUNTY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>21</b>	<b>13</b>	<b>1 645</b>	<b>39 276</b>	<b>1 369</b>	<b>2 742</b>	<b>28 193</b>	<b>92 364</b>	<b>279 403</b>	<b>373 390</b>	<b>4 776</b>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D

<sup>1</sup>Some 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.

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

**Table 4. Industry Statistics for Places: 1997**

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ABERDEEN, NC</b>												
	<b>Manufacturing ....</b>	1	<b>22</b>	<b>9</b>	<b>1 191</b>	<b>29 341</b>	<b>909</b>	<b>1 748</b>	<b>16 433</b>	<b>111 476</b>	<b>118 833</b>	<b>229 508</b>	<b>7 956</b>
	<b>AHOSKIE, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>9</b>	<b>6</b>	<b>532</b>	<b>11 444</b>	<b>423</b>	<b>893</b>	<b>8 036</b>	<b>38 113</b>	<b>104 546</b>	<b>145 912</b>	<b>6 685</b>
	<b>ALBEMARLE, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>50</b>	<b>26</b>	<b>3 363</b>	<b>81 346</b>	<b>2 706</b>	<b>5 795</b>	<b>59 279</b>	<b>199 415</b>	<b>278 755</b>	<b>479 559</b>	<b>28 138</b>
313	Textile mills .....	-	8	8	1 310	31 594	1 144	2 642	24 766	85 707	77 627	164 927	D
3133	Textile & fabric finishing & fabric coating mills .....	-	4	4	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	4	4	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	5	2	f	D	D	D	D	D	D	D	500

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ANDREWS, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>7</b>	<b>2</b>	<b>671</b>	<b>10 939</b>	<b>597</b>	<b>918</b>	<b>8 944</b>	<b>18 924</b>	<b>21 510</b>	<b>40 299</b>	<b>736</b>
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
31529	Other cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
315291	Infants' cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>APEX, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>22</b>	<b>10</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>16 973</b>
332	Fabricated metal product mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
<b>ARCHDALE, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>40</b>	<b>20</b>	<b>1 441</b>	<b>33 419</b>	<b>1 173</b>	<b>2 208</b>	<b>23 577</b>	<b>70 719</b>	<b>87 080</b>	<b>157 327</b>	<b>3 216</b>
337	Furniture & related product mfg .....	2	14	10	541	9 980	448	766	7 669	25 005	25 063	49 080	815
<b>ASHEBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>89</b>	<b>47</b>	<b>9 211</b>	<b>223 029</b>	<b>7 622</b>	<b>14 003</b>	<b>164 730</b>	<b>978 623</b>	<b>898 762</b>	<b>1 853 152</b>	<b>60 319</b>
313	Textile mills .....	2	8	7	1 083	25 048	928	2 071	19 417	64 710	109 217	174 338	D
3132	Fabric mills .....	4	6	6	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	6	4	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	18	12	1 946	40 294	1 526	2 860	27 182	68 581	113 393	184 756	2 924
3151	Apparel knitting mills .....	-	12	9	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	-	9	7	g	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	1	5	4	867	19 574	739	1 439	13 504	19 491	36 324	57 183	D
315119	Other hosiery & sock mills .....	-	4	3	f	D	D	D	D	D	D	D	642
326	Plastics & rubber products mfg .....	-	7	5	1 263	29 441	1 071	1 957	21 295	82 477	102 406	184 376	13 329
3261	Plastics product mfg .....	-	6	4	g	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
335	Electrical equipment, appliance, & component mfg .....	-	4	4	h	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	2	2	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg...	-	2	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg...	-	2	2	g	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 .....	-	2	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ASHEVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>142</b>	<b>48</b>	<b>6 168</b>	<b>164 746</b>	<b>4 631</b>	<b>9 494</b>	<b>107 604</b>	<b>628 646</b>	<b>779 981</b>	<b>1 405 312</b>	<b>26 235</b>
311	Food mfg .....	2	5	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	10	4	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	3	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	1 080	32 437	745	1 670	19 900	84 486	330 188	415 196	D
3363	Motor vehicle parts mfg ...	-	5	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>BELMONT, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>38</b>	<b>27</b>	<b>2 723</b>	<b>63 688</b>	<b>2 347</b>	<b>5 032</b>	<b>51 123</b>	<b>159 575</b>	<b>254 148</b>	<b>414 265</b>	<b>16 215</b>
313	Textile mills .....	-	19	16	1 871	43 049	1 702	3 638	36 543	112 748	202 958	315 573	13 726
3131	Fiber, yarn, & thread mills .	-	10	10	1 107	25 004	1 014	2 299	22 169	72 688	136 126	208 739	11 498
31311	Fiber, yarn, & thread mills .....	-	10	10	1 107	25 004	1 014	2 299	22 169	72 688	136 126	208 739	11 498
313111	Yarn spinning mills ...	-	10	10	1 107	25 004	1 014	2 299	22 169	72 688	136 126	208 739	11 498
3133	Textile & fabric finishing & fabric coating mills .....	-	5	4	573	14 006	522	953	11 358	34 506	60 024	94 296	D
31331	Textile & fabric finishing mills .....	-	5	4	573	14 006	522	953	11 358	34 506	60 024	94 296	D
313312	Textile & fabric finishing mills .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>BENSON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>3</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
<b>BESSEMER CITY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>13</b>	<b>5</b>	<b>932</b>	<b>35 266</b>	<b>620</b>	<b>1 284</b>	<b>18 850</b>	<b>111 235</b>	<b>38 924</b>	<b>146 335</b>	<b>D</b>
325	Chemical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BLACK MOUNTAIN, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>6</b>	<b>1 388</b>	<b>35 099</b>	<b>1 159</b>	<b>2 109</b>	<b>24 438</b>	<b>55 694</b>	<b>54 917</b>	<b>112 203</b>	<b>3 839</b>
335	Electrical equipment, appliance, & component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BOONE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>20</b>	<b>5</b>	<b>840</b>	<b>16 548</b>	<b>684</b>	<b>1 057</b>	<b>12 298</b>	<b>33 132</b>	<b>28 883</b>	<b>63 391</b>	<b>D</b>



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>BURLINGTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>110</b>	<b>58</b>	<b>8 811</b>	<b>208 566</b>	<b>7 241</b>	<b>14 648</b>	<b>147 652</b>	<b>600 468</b>	<b>833 411</b>	<b>1 435 558</b>	<b>53 268</b>
313	Textile mills .....	-	15	12	2 560	62 889	2 230	5 032	48 542	164 327	398 134	564 381	32 667
3133	Textile & fabric finishing & fabric coating mills .....	-	8	7	1 896	45 831	1 659	3 770	35 547	129 268	353 045	484 694	D
31331	Textile & fabric finishing mills .....	-	8	7	1 896	45 831	1 659	3 770	35 547	129 268	353 045	484 694	D
313311	Broadwoven fabric finishing mills .....	-	4	3	1 009	22 480	889	2 018	18 040	81 222	240 861	319 265	D
313312	Textile & fabric finishing mills .....	-	4	4	887	23 351	770	1 752	17 507	48 046	112 184	165 429	4 370
314	Textile product mills .....	-	6	3	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	3	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	3	2	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
315	Apparel mfg .....	-	23	17	2 849	52 910	2 568	4 648	41 814	133 632	161 818	291 996	6 579
3151	Apparel knitting mills .....	-	23	17	2 849	52 910	2 568	4 648	41 814	133 632	161 818	291 996	6 579
31511	Hosiery & sock mills .....	-	23	17	2 849	52 910	2 568	4 648	41 814	133 632	161 818	291 996	6 579
315111	Sheer hosiery mills .....	-	4	3	695	12 395	606	1 034	9 136	37 345	29 717	64 319	941
315119	Other hosiery & sock mills .....	-	19	14	2 154	40 515	1 962	3 614	32 678	96 287	132 101	227 677	5 638
325	Chemical mfg .....	3	5	4	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	3	4	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	3	4	4	f	D	D	D	D	D	D	D	D
<b>CANTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>3</b>	<b>1 620</b>	<b>80 041</b>	<b>1 221</b>	<b>2 432</b>	<b>57 598</b>	<b>136 977</b>	<b>229 171</b>	<b>364 452</b>	<b>D</b>
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
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
<b>CARY, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>65</b>	<b>15</b>	<b>2 767</b>	<b>89 319</b>	<b>2 102</b>	<b>3 909</b>	<b>53 826</b>	<b>217 430</b>	<b>171 023</b>	<b>384 692</b>	<b>16 426</b>
311	Food mfg .....	-	5	1	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	4	1	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>CHARLOTTE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>787</b>	<b>245</b>	<b>31 811</b>	<b>1 058 526</b>	<b>20 279</b>	<b>42 892</b>	<b>565 410</b>	<b>3 235 192</b>	<b>3 278 853</b>	<b>6 504 029</b>	<b>213 473</b>
311	Food mfg .....	-	28	11	i	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	17	6	i	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	14	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	8	3	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	3	3	h	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	2	2	h	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
313	Textile mills .....	4	23	7	f	D	D	D	D	D	D	D	3 524
314	Textile product mills .....	-	20	7	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	1	13	3	549	11 377	501	1 009	8 403	29 738	40 625	67 373	548
322	Paper mfg .....	-	20	15	1 596	57 634	1 218	2 589	38 630	144 200	145 472	288 647	9 200
3222	Converted paper product mfg .....	-	19	14	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	-	12	10	g	D	D	D	D	D	D	D	D
322212	Folding paperboard box mfg .....	-	3	3	523	20 361	374	722	14 182	54 689	40 140	94 731	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>CHARLOTTE, NC—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
323	Printing & related support activities.....	1	169	35	3 019	107 211	2 120	4 353	67 081	209 780	152 197	363 244	25 652
3231	Printing & related support activities.....	1	169	35	3 019	107 211	2 120	4 353	67 081	209 780	152 197	363 244	25 652
32311	Printing.....	1	136	24	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	58	16	1 159	38 424	807	1 631	23 610	78 975	81 171	159 788	D
32312	Support activities for printing.....	1	33	11	f	D	D	D	D	D	D	D	D
323122	Prepress services .....	1	25	9	f	D	D	D	D	D	D	D	2 897
325	Chemical mfg .....	3	62	20	2 103	87 201	1 039	2 132	34 840	295 956	303 918	594 427	37 682
3251	Basic chemical mfg .....	-	7	3	565	23 132	213	439	9 451	84 660	71 060	155 398	D
32513	Dye & pigment mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	33	14	3 205	109 682	2 511	4 742	75 443	352 330	304 156	646 340	26 490
3261	Plastics product mfg .....	1	24	10	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	12	4	648	19 522	394	750	8 046	23 813	32 875	56 730	D
326199	All other plastics product mfg .....	-	10	3	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	9	4	g	D	D	D	D	D	D	D	D
32621	Tire mfg .....	-	5	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 .....	4	23	8	686	19 728	562	1 262	15 055	56 729	50 930	107 605	5 117
3273	Cement & concrete product mfg .....	5	12	7	f	D	D	D	D	D	D	D	4 785
331	Primary metal mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	4	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	2	2	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	121	40	3 027	94 969	2 261	4 649	59 627	160 330	220 687	382 794	15 256
3323	Architectural & structural metals mfg .....	-	26	6	631	21 373	374	706	10 599	10 999	102 949	114 220	2 770
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	38	8	511	16 236	402	799	10 503	23 945	16 772	41 286	D
333	Machinery mfg .....	1	82	32	2 555	88 519	1 497	3 000	43 016	228 991	180 007	402 914	11 424
3332	Industrial machinery mfg ..	-	31	12	831	28 015	419	820	11 787	91 212	61 416	146 594	5 150
33329	Other industrial machinery mfg .....	-	27	10	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	17	10	669	23 121	368	713	9 806	53 507	33 576	87 916	D
33399	All other general-purpose machinery mfg .....	-	11	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	24	11	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	10	5	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	10	5	h	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
339	Miscellaneous mfg.....	1	70	14	1 345	43 631	886	1 711	21 127	93 636	85 852	173 407	6 242
3391	Medical equipment & supplies mfg .....	1	29	6	594	22 285	389	764	10 638	48 923	51 955	95 180	D
33911	Medical equipment & supplies mfg .....	1	29	6	594	22 285	389	764	10 638	48 923	51 955	95 180	D
3399	Other miscellaneous mfg ..	2	41	8	751	21 346	497	947	10 489	44 713	33 897	78 227	D
	<b>CHERRYVILLE, NC</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>17</b>	<b>7</b>	<b>1 097</b>	<b>23 646</b>	<b>982</b>	<b>2 010</b>	<b>18 940</b>	<b>65 037</b>	<b>70 524</b>	<b>133 807</b>	<b>D</b>
313	Textile mills.....	-	7	3	513	10 561	460	1 038	8 750	31 568	44 806	74 850	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CHINA GROVE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>10</b>	<b>3</b>	<b>597</b>	<b>11 824</b>	<b>536</b>	<b>940</b>	<b>10 001</b>	<b>26 811</b>	<b>33 881</b>	<b>61 919</b>	<b>3 485</b>
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
313111	Yarn spinning mills ...	-	2	2	f	D	D	D	D	D	D	D	D
<b>CLAYTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>4</b>	<b>13</b>	<b>7</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>37 244</b>
325	Chemical mfg .....	9	2	2	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	9	2	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	9	2	2	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg. ....	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CLINTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>26</b>	<b>12</b>	<b>2 063</b>	<b>49 962</b>	<b>1 590</b>	<b>3 547</b>	<b>33 857</b>	<b>63 816</b>	<b>397 386</b>	<b>465 017</b>	<b>7 583</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CONCORD, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>78</b>	<b>32</b>	<b>6 253</b>	<b>225 383</b>	<b>4 667</b>	<b>9 261</b>	<b>148 204</b>	<b>5 678 518</b>	<b>1 285 857</b>	<b>6 968 576</b>	<b>245 230</b>
312	Beverage & tobacco product mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
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 .....	5	10	7	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	6	14	6	f	D	D	D	D	D	D	D	1 275
3151	Apparel knitting mills .....	7	10	4	698	10 704	609	1 030	8 273	22 011	22 254	47 207	D
31511	Hosiery & sock mills ....	7	10	4	698	10 704	609	1 030	8 273	22 011	22 254	47 207	D
315111	Sheer hosiery mills ....	7	9	3	f	D	D	D	D	D	D	D	D
<b>CONOVER, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>84</b>	<b>57</b>	<b>7 707</b>	<b>195 160</b>	<b>6 397</b>	<b>12 251</b>	<b>140 296</b>	<b>519 195</b>	<b>479 371</b>	<b>993 555</b>	<b>49 942</b>
314	Textile product mills .....	-	4	3	582	10 413	478	925	8 034	47 456	16 624	58 773	D
326	Plastics & rubber products mfg .....	-	11	8	1 142	28 651	962	1 721	18 257	82 108	88 890	170 371	12 885
3261	Plastics product mfg .....	-	10	7	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg .....	-	6	6	671	17 195	588	1 009	12 409	54 539	65 120	119 886	D
326150	Urethane & other foam product (except polystyrene) mfg .....	-	6	6	671	17 195	588	1 009	12 409	54 539	65 120	119 886	D
337	Furniture & related product mfg .....	1	28	22	3 639	89 391	3 039	5 899	66 117	180 386	168 112	347 885	4 473
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	25	20	3 557	87 596	2 962	5 757	64 618	176 987	166 608	342 992	4 416
33712	Household & institutional furniture mfg .....	1	24	20	h	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	2	18	15	h	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	4	3	f	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>DAVIDSON, NC *</b>													
31-33	<b>Manufacturing ....</b>	-	7	5	763	24 801	437	891	10 857	66 447	127 318	193 698	1 828
333	Machinery mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>DUNN, NC</b>													
31-33	<b>Manufacturing ....</b>	1	24	10	1 735	40 932	1 452	2 907	24 950	84 152	89 133	171 966	5 669
335	Electrical equipment, appliance, & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>DURHAM, NC *</b>													
31-33	<b>Manufacturing ....</b>	1	123	37	i	D	D	D	D	D	D	D	53 712
314	Textile product mills .....	8	4	2	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	9	2	1	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	9	2	1	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	9	2	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	7	3	755	40 999	298	603	11 266	99 414	65 193	165 106	D
3254	Pharmaceutical & medicine mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	8	5	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
<b>EDEN, NC</b>													
31-33	<b>Manufacturing ....</b>	-	22	11	3 787	111 860	3 230	6 614	85 541	501 895	621 951	1 122 842	31 961
312	Beverage & tobacco product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31212	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries .....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	5	5	g	D	D	D	D	D	D	D	8 729
3131	Fiber, yarn, & thread mills .	-	3	3	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	3	3	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
31411	Carpet & rug mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	-	2	2	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	-	2	2	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>EDENTON, NC</b>													
31-33	<b>Manufacturing ....</b>	-	11	6	674	14 701	585	1 264	11 195	30 939	44 761	76 436	D
<b>ELIZABETH CITY, NC *</b>													
31-33	<b>Manufacturing ....</b>	1	26	9	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ELIZABETHTOWN, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>11</b>	<b>7</b>	<b>1 281</b>	<b>30 460</b>	<b>1 025</b>	<b>1 912</b>	<b>20 504</b>	<b>4 727</b>	<b>145 830</b>	<b>154 568</b>	<b>D</b>
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
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills ..	-	1	1	f	D	D	D	D	D	D	D	D
<b>ELKIN, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>17</b>	<b>5</b>	<b>2 244</b>	<b>44 472</b>	<b>2 000</b>	<b>4 410</b>	<b>37 519</b>	<b>103 403</b>	<b>117 347</b>	<b>218 649</b>	<b>4 228</b>
313	Textile mills .....	-	2	1	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	2	1	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	2	1	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	2	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ELON COLLEGE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>6</b>	<b>3</b>	<b>626</b>	<b>13 907</b>	<b>476</b>	<b>773</b>	<b>9 029</b>	<b>78 221</b>	<b>39 321</b>	<b>120 352</b>	<b>4 623</b>
<b>ERWIN, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>1</b>	<b>1</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
313	Textile mills .....	-	1	1	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
<b>FARMVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>18</b>	<b>9</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>5 879</b>
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
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FAYETTEVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>78</b>	<b>36</b>	<b>9 100</b>	<b>295 112</b>	<b>7 503</b>	<b>14 836</b>	<b>223 238</b>	<b>1 107 190</b>	<b>1 077 499</b>	<b>2 169 990</b>	<b>75 624</b>
315	Apparel mfg .....	-	5	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	4	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	3	2	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
32621	Tire mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) .....	-	1	1	h	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	-	1	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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>FLETCHER, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>18</b>	<b>8</b>	<b>1 953</b>	<b>65 859</b>	<b>1 515</b>	<b>3 635</b>	<b>46 163</b>	<b>177 352</b>	<b>177 443</b>	<b>352 767</b>	<b>22 288</b>
336	Transportation equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . .	-	1	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
337211	Wood office furniture mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>FOREST CITY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>30</b>	<b>14</b>	<b>3 166</b>	<b>76 599</b>	<b>2 694</b>	<b>5 052</b>	<b>55 436</b>	<b>167 023</b>	<b>270 442</b>	<b>446 184</b>	<b>8 924</b>
315	Apparel mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	7	7	996	21 789	843	1 795	16 328	62 127	47 503	110 005	5 193
3261	Plastics product mfg . . . . .	-	7	7	996	21 789	843	1 795	16 328	62 127	47 503	110 005	5 193
32619	Other plastics product mfg . . . . .	-	6	6	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg . . . . .	-	6	6	f	D	D	D	D	D	D	D	D
<b>FRANKLIN, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	2	<b>15</b>	<b>6</b>	<b>811</b>	<b>19 781</b>	<b>664</b>	<b>1 425</b>	<b>13 776</b>	<b>48 107</b>	<b>47 024</b>	<b>88 692</b>	<b>4 637</b>
<b>FUQUAY-VARINA, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>17</b>	<b>9</b>	<b>1 657</b>	<b>53 230</b>	<b>1 064</b>	<b>2 251</b>	<b>25 595</b>	<b>227 434</b>	<b>134 668</b>	<b>358 158</b>	<b>8 984</b>
326	Plastics & rubber products mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>GASTONIA, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>211</b>	<b>80</b>	<b>12 666</b>	<b>360 045</b>	<b>10 120</b>	<b>20 778</b>	<b>261 541</b>	<b>1 193 568</b>	<b>1 186 692</b>	<b>2 385 766</b>	<b>80 870</b>
313	Textile mills . . . . .	1	24	18	3 175	75 013	2 743	6 059	57 310	175 037	356 154	535 341	20 319
3131	Fiber, yarn, & thread mills . . . . .	-	10	8	1 601	37 408	1 438	3 143	30 134	86 050	143 857	230 870	13 837
31311	Fiber, yarn, & thread mills . . . . .	-	10	8	1 601	37 408	1 438	3 143	30 134	86 050	143 857	230 870	13 837
313111	Yarn spinning mills . . . . .	-	8	7	g	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	6	7	5	820	20 601	647	1 360	14 282	36 345	27 673	64 024	2 443
31324	Knit fabric mills . . . . .	6	5	5	f	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills . . . . .	6	4	4	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills . . . . .	-	7	5	754	17 004	658	1 556	12 894	52 642	184 624	240 447	4 039
31331	Textile & fabric finishing mills . . . . .	-	6	4	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills . . . . .	-	4	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	1	4	2	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
327215	Glass product mfg made of purchased glass . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	60	11	1 675	50 590	1 350	2 558	34 342	152 796	165 853	318 715	7 408
3322	Cutlery & handtool mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D

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<b>GASTONIA, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	2	39	11	885	26 976	578	1 128	14 400	53 984	37 780	91 088	2 055
3332	Industrial machinery mfg ..	2	29	8	686	20 868	454	899	11 186	39 593	28 459	67 029	1 553
33329	Other industrial machinery mfg .....	2	29	8	686	20 868	454	899	11 186	39 593	28 459	67 029	1 553
333292	Textile machinery mfg.	2	25	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	3	3	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	3	3	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	—	2	2	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg .....	—	2	2	h	D	D	D	D	D	D	D	D
<b>GOLDSBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>64</b>	<b>27</b>	<b>4 644</b>	<b>116 076</b>	<b>3 294</b>	<b>6 659</b>	<b>72 290</b>	<b>305 196</b>	<b>270 063</b>	<b>579 783</b>	<b>25 222</b>
311	Food mfg .....	8	7	4	853	20 040	290	565	5 697	48 648	51 533	100 152	D
3118	Bakeries & tortilla mfg .....	9	2	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	3	3	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
<b>GRAHAM, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>43</b>	<b>24</b>	<b>2 636</b>	<b>69 453</b>	<b>2 109</b>	<b>4 475</b>	<b>44 224</b>	<b>179 786</b>	<b>243 492</b>	<b>412 412</b>	<b>15 398</b>
313	Textile mills .....	5	9	7	1 126	25 977	969	2 209	20 421	49 279	85 269	134 366	5 131
3132	Fabric mills .....	5	7	6	f	D	D	D	D	D	D	D	D
<b>GRANITE FALLS, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>25</b>	<b>16</b>	<b>1 557</b>	<b>35 463</b>	<b>1 312</b>	<b>2 408</b>	<b>24 961</b>	<b>92 500</b>	<b>87 456</b>	<b>178 128</b>	<b>4 069</b>
<b>GREENSBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>411</b>	<b>158</b>	<b>21 305</b>	<b>711 528</b>	<b>14 979</b>	<b>29 582</b>	<b>416 689</b>	<b>3 497 301</b>	<b>2 419 842</b>	<b>5 903 619</b>	<b>167 068</b>
311	Food mfg .....	1	14	11	1 060	24 912	542	1 074	9 937	63 061	125 479	187 709	4 009
3116	Meat product mfg .....	1	4	4	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	1	4	4	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	9	3	2	g	D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	9	1	1	g	D	D	D	D	D	D	D	D
31222	Tobacco product mfg ...	9	1	1	g	D	D	D	D	D	D	D	D
312221	Cigarette mfg .....	9	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills .....	—	23	14	4 084	105 595	3 531	6 798	80 306	268 254	499 740	772 616	24 789
3132	Fabric mills .....	—	12	8	h	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	—	3	1	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	—	3	1	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	—	8	7	g	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	—	5	5	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	1	10	5	811	21 795	615	1 491	14 698	69 985	138 583	210 336	D
31331	Textile & fabric finishing mills .....	2	8	4	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	4	12	7	524	18 876	382	891	12 588	50 019	63 996	115 170	2 269
3222	Converted paper product mfg .....	4	12	7	524	18 876	382	891	12 588	50 019	63 996	115 170	2 269

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>GREENSBORO, NC—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
323	Printing & related support activities.....	-	87	22	2 366	69 564	1 655	3 482	42 285	197 870	75 120	273 028	9 207
3231	Printing & related support activities.....	-	87	22	2 366	69 564	1 655	3 482	42 285	197 870	75 120	273 028	9 207
32311	Printing.....	-	77	18	2 151	61 497	1 507	3 177	37 522	180 501	72 641	253 193	D
323110	Commercial lithographic printing ..	-	50	11	1 205	37 879	851	1 771	21 758	95 622	45 616	140 642	6 632
323116	Manifold business form printing.....	-	3	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	25	15	1 857	73 319	1 205	2 173	34 479	637 685	522 323	1 149 072	28 600
3259	Other chemical product mfg.....	-	7	3	747	36 605	489	735	12 968	108 437	293 341	404 772	D
32599	All other chemical product & preparation mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	22	11	721	20 389	532	1 199	12 630	55 385	52 587	107 791	4 547
3261	Plastics product mfg.....	1	19	10	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	61	24	1 436	44 448	1 045	2 044	26 490	85 263	85 077	171 812	6 132
333	Machinery mfg.....	-	32	11	2 439	94 119	1 323	2 723	41 050	184 755	319 431	511 547	12 052
3339	Other general-purpose machinery mfg.....	-	7	4	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	14	9	2 386	88 467	1 490	2 645	43 575	294 598	166 159	447 710	D
3344	Semiconductor & other electronic component mfg.....	-	7	5	g	D	D	D	D	D	D	D	35 970
33441	Semiconductor & other electronic component mfg.....	-	7	5	g	D	D	D	D	D	D	D	35 970
334413	Semiconductor & related device mfg...	-	2	2	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	37	7	974	31 315	691	1 293	18 142	70 445	82 183	150 107	D
3399	Other miscellaneous mfg ..	-	20	5	f	D	D	D	D	D	D	D	D
	<b>GREENVILLE, NC</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	-	<b>60</b>	<b>23</b>	<b>4 006</b>	<b>143 460</b>	<b>2 646</b>	<b>5 254</b>	<b>76 255</b>	<b>1 330 242</b>	<b>477 856</b>	<b>1 827 235</b>	<b>D</b>
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
32229	Other converted paper product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	2	5	4	f	D	D	D	D	D	D	D	D



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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>HENDERSON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>35</b>	<b>24</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
313	Textile mills .....	-	6	5	g	D	D	D	D	D	D	D	D
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
313111	Yarn spinning mills ...	-	3	3	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	3	3	625	9 913	559	949	7 293	14 202	5 742	19 929	374
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
315	Apparel mfg .....	-	4	4	861	20 134	722	1 507	10 582	47 157	28 992	73 759	D
3151	Apparel knitting mills .....	-	4	4	861	20 134	722	1 507	10 582	47 157	28 992	73 759	D
31511	Hosiery & sock mills ....	-	3	3	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	5	5	3	f	D	D	D	D	D	D	D	D
<b>HENDERSONVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>42</b>	<b>8</b>	<b>1 649</b>	<b>48 762</b>	<b>1 335</b>	<b>2 793</b>	<b>33 385</b>	<b>146 708</b>	<b>180 923</b>	<b>321 035</b>	<b>13 767</b>
313	Textile mills .....	2	2	2	f	D	D	D	D	D	D	D	D
<b>HICKORY, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>253</b>	<b>125</b>	<b>17 501</b>	<b>441 105</b>	<b>14 497</b>	<b>27 884</b>	<b>320 464</b>	<b>965 332</b>	<b>1 287 713</b>	<b>2 235 803</b>	<b>65 008</b>
313	Textile mills .....	-	14	12	1 921	51 420	1 717	3 757	43 029	110 842	190 034	296 084	5 718
3132	Fabric mills .....	-	6	4	1 235	34 368	1 140	2 536	30 486	72 522	121 508	188 861	D
31321	Broadwoven fabric mills .	-	3	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	3	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	2	45	21	1 932	39 428	1 618	3 229	29 196	71 426	82 486	150 466	D
3151	Apparel knitting mills .....	2	42	20	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ....	2	41	20	1 892	38 696	1 582	3 164	28 677	70 457	81 980	148 982	4 548
315111	Sheer hosiery mills ...	-	10	4	825	17 869	693	1 361	13 619	32 459	31 975	62 018	2 412
315119	Other hosiery & sock mills .....	4	31	16	1 067	20 827	889	1 803	15 058	37 998	50 005	86 964	2 136
322	Paper mfg .....	1	5	3	510	14 679	452	918	11 397	42 090	56 176	100 139	D
3222	Converted paper product mfg .....	1	5	3	510	14 679	452	918	11 397	42 090	56 176	100 139	D
326	Plastics & rubber products mfg .....	-	13	8	659	16 870	491	769	10 973	39 125	66 281	105 829	8 809
3261	Plastics product mfg .....	-	9	8	622	15 802	460	707	10 144	36 698	63 988	101 091	D
332	Fabricated metal product mfg .....	1	18	4	762	15 455	655	1 059	10 233	35 196	31 595	67 072	1 763
335	Electrical equipment, appliance, & component mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg..	-	2	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	78	48	7 681	188 421	6 397	11 680	140 119	373 573	334 401	705 904	11 855
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	62	37	7 008	172 582	5 862	10 771	129 952	347 438	312 091	658 269	11 320
33712	Household & institutional furniture mfg .....	-	59	37	6 999	172 428	5 854	10 760	129 834	347 104	311 808	657 650	11 303
337121	Upholstered household furniture mfg .....	-	47	30	5 577	140 575	4 711	8 599	105 165	262 665	258 123	519 788	D
337122	Nonupholstered wood household furniture mfg .....	1	10	6	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	-	15	10	f	D	D	D	D	D	D	D	535
33721	Office furniture (including fixtures) mfg .....	-	15	10	f	D	D	D	D	D	D	D	535

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>HIGH POINT, NC *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>288</b>	<b>134</b>	<b>17 182</b>	<b>464 995</b>	<b>13 076</b>	<b>26 232</b>	<b>298 193</b>	<b>972 213</b>	<b>1 292 573</b>	<b>2 247 888</b>	<b>66 225</b>
314	Textile product mills.....	2	25	9	742	17 863	592	1 248	11 589	33 585	41 162	74 760	D
3149	Other textile product mills...	2	17	8	f	D	D	D	D	D	D	D	2 756
31499	All other textile product mills .....	2	16	7	568	14 227	453	993	9 446	28 309	34 189	62 492	2 756
314999	All other miscellaneous textile product mills ..	2	16	7	568	14 227	453	993	9 446	28 309	34 189	62 492	2 756
315	Apparel mfg .....	2	13	11	g	D	D	D	D	D	D	D	2 288
3151	Apparel knitting mills .....	3	7	6	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	3	6	5	g	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	2	5	5	g	D	D	D	D	D	D	D	D
321	Wood product mfg .....	3	14	10	f	D	D	D	D	D	D	D	2 328
323	Printing & related support activities.....	-	30	14	854	25 017	695	1 129	15 713	57 565	35 761	93 656	6 039
3231	Printing & related support activities.....	-	30	14	854	25 017	695	1 129	15 713	57 565	35 761	93 656	6 039
32311	Printing .....	-	20	8	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	17	8	1 673	63 597	736	1 566	19 489	197 937	226 431	424 382	11 298
3255	Paint, coating, & adhesive mfg .....	1	6	4	g	D	D	D	D	D	D	D	4 106
32551	Paint & coating mfg .....	1	6	4	g	D	D	D	D	D	D	D	4 106
325510	Paint & coating mfg ...	1	6	4	g	D	D	D	D	D	D	D	4 106
326	Plastics & rubber products mfg .....	-	17	13	793	19 450	683	1 219	12 901	39 928	58 071	98 219	3 292
3261	Plastics product mfg .....	-	16	12	f	D	D	D	D	D	D	D	3 292
32615	Urethane & other foam product (except polystyrene) mfg .....	-	9	8	525	11 402	460	779	7 698	21 788	34 484	55 986	D
326150	Urethane & other foam product (except polystyrene) mfg ....	-	9	8	525	11 402	460	779	7 698	21 788	34 484	55 986	D
332	Fabricated metal product mfg .....	-	24	8	1 169	27 114	990	1 777	19 965	70 397	66 715	136 545	4 175
336	Transportation equipment mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	81	35	6 032	144 983	4 815	9 734	104 835	260 990	228 687	490 975	16 240
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	56	21	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	53	20	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	36	17	2 140	52 468	1 826	3 407	41 021	107 055	91 814	197 939	1 718
3372	Office furniture (including fixtures) mfg .....	-	21	14	2 972	67 304	2 226	4 233	43 499	112 306	95 839	209 891	13 078
33721	Office furniture (including fixtures) mfg .....	-	21	14	2 972	67 304	2 226	4 233	43 499	112 306	95 839	209 891	13 078
337211	Wood office furniture mfg .....	-	9	8	2 548	57 234	1 857	3 635	36 234	91 508	82 083	175 288	12 068
	<b>HILLSBOROUGH, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>19</b>	<b>7</b>	<b>626</b>	<b>18 395</b>	<b>484</b>	<b>987</b>	<b>11 876</b>	<b>34 643</b>	<b>42 872</b>	<b>77 629</b>	<b>D</b>
	<b>HUDSON, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>16</b>	<b>10</b>	<b>683</b>	<b>14 708</b>	<b>570</b>	<b>886</b>	<b>10 158</b>	<b>36 565</b>	<b>32 481</b>	<b>69 810</b>	<b>1 835</b>
	<b>HUNTERSVILLE, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>19</b>	<b>6</b>	<b>630</b>	<b>22 072</b>	<b>382</b>	<b>753</b>	<b>10 663</b>	<b>55 022</b>	<b>50 604</b>	<b>106 761</b>	<b>3 459</b>

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<b>KANNAPOLIS, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>21</b>	<b>4</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
313	Textile mills .....	-	3	3	h	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	3	3	h	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	3	3	h	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	3	3	h	D	D	D	D	D	D	D	D
<b>KERNERSVILLE, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>49</b>	<b>19</b>	<b>2 454</b>	<b>72 732</b>	<b>1 781</b>	<b>3 537</b>	<b>44 964</b>	<b>220 729</b>	<b>653 010</b>	<b>865 806</b>	<b>29 245</b>
332	Fabricated metal product mfg .....	-	14	5	666	20 921	479	946	13 280	41 523	50 278	91 559	1 809
<b>KINGS MOUNTAIN, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>39</b>	<b>22</b>	<b>2 992</b>	<b>75 362</b>	<b>2 403</b>	<b>4 718</b>	<b>52 533</b>	<b>216 710</b>	<b>245 261</b>	<b>458 106</b>	<b>20 299</b>
313	Textile mills .....	-	13	8	1 140	24 013	935	1 908	16 400	58 068	117 825	172 796	12 888
3132	Fabric mills .....	-	6	4	679	11 613	577	1 126	8 611	14 793	43 846	55 648	3 791
31324	Knit fabric mills .....	-	3	3	f	D	D	D	D	D	D	D	D
313241	Weft knit 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
335312	Motor & generator mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>KINSTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>51</b>	<b>24</b>	<b>3 832</b>	<b>98 115</b>	<b>2 796</b>	<b>5 743</b>	<b>56 093</b>	<b>345 211</b>	<b>552 732</b>	<b>904 491</b>	<b>15 997</b>
311	Food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	6	5	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . .	-	2	2	f	D	D	D	D	D	D	D	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
<b>LAURINBURG, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>32</b>	<b>14</b>	<b>3 631</b>	<b>102 039</b>	<b>3 142</b>	<b>6 550</b>	<b>71 031</b>	<b>301 647</b>	<b>324 239</b>	<b>623 748</b>	<b>34 319</b>
327	Nonmetallic mineral product mfg .....	-	5	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
327211	Flat glass mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>LENOIR, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>69</b>	<b>42</b>	<b>9 699</b>	<b>226 136</b>	<b>8 460</b>	<b>17 172</b>	<b>181 107</b>	<b>528 077</b>	<b>475 185</b>	<b>1 005 168</b>	<b>24 293</b>
323	Printing & related support activities.....	-	5	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	5	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	4	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	4	4	523	11 169	366	574	5 888	29 235	37 597	67 571	2 590
3261	Plastics product mfg .....	-	4	4	523	11 169	366	574	5 888	29 235	37 597	67 571	2 590
337	Furniture & related product mfg .....	-	20	15	6 854	151 635	6 254	12 828	129 295	353 345	273 545	629 754	11 407
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	18	15	i	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	17	15	i	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	5	5	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	12	10	i	D	D	D	D	D	D	D	D
<b>LEXINGTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>93</b>	<b>37</b>	<b>7 746</b>	<b>190 339</b>	<b>6 552</b>	<b>12 235</b>	<b>141 425</b>	<b>446 189</b>	<b>364 037</b>	<b>812 974</b>	<b>27 514</b>
321	Wood product mfg .....	3	14	6	530	11 898	468	890	9 395	23 263	37 067	65 873	1 397
335	Electrical equipment, appliance, & component mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	19	13	4 625	102 592	4 223	7 604	87 185	237 301	153 768	392 936	2 262
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	15	11	h	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	14	11	h	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	11	9	4 313	96 678	3 946	7 158	82 287	214 284	139 365	355 587	D
<b>LINCOLNTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>47</b>	<b>29</b>	<b>4 253</b>	<b>109 486</b>	<b>3 633</b>	<b>7 633</b>	<b>85 659</b>	<b>272 280</b>	<b>281 898</b>	<b>553 151</b>	<b>15 430</b>
313	Textile mills .....	2	12	10	1 223	28 598	1 098	2 421	23 752	62 716	58 330	121 068	3 467
3132	Fabric mills .....	2	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	6	4	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
337	Furniture & related product mfg .....	-	8	5	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>LONG VIEW, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>25</b>	<b>16</b>	<b>1 582</b>	<b>35 991</b>	<b>1 355</b>	<b>2 479</b>	<b>25 518</b>	<b>68 387</b>	<b>65 843</b>	<b>133 856</b>	<b>5 083</b>
313	Textile mills .....	7	6	6	547	12 877	470	898	9 104	24 418	11 903	36 049	D
<b>LOWELL, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>5</b>	<b>1 100</b>	<b>34 993</b>	<b>932</b>	<b>1 915</b>	<b>28 110</b>	<b>138 674</b>	<b>47 743</b>	<b>183 866</b>	<b>6 051</b>
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
334417	Electronic connector mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>LUMBERTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>42</b>	<b>24</b>	<b>4 822</b>	<b>111 680</b>	<b>4 035</b>	<b>8 605</b>	<b>79 938</b>	<b>344 256</b>	<b>402 291</b>	<b>755 307</b>	<b>15 258</b>
313	Textile mills .....	-	8	7	1 065	20 490	924	1 874	15 302	30 418	84 277	116 512	2 545
3132	Fabric mills .....	1	7	6	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	1	5	5	f	D	D	D	D	D	D	D	D
313241	Wett knit fabric mills ..	1	5	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	2	6	6	1 297	21 632	1 139	2 526	17 206	83 345	98 581	186 999	1 730
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
315111	Sheer hosiery mills ...	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	4	5	5	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MARION, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>19</b>	<b>12</b>	<b>2 331</b>	<b>54 547</b>	<b>2 026</b>	<b>4 058</b>	<b>44 152</b>	<b>140 230</b>	<b>140 380</b>	<b>274 685</b>	<b>24 000</b>
337	Furniture & related product mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
<b>MATTHEWS, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>47</b>	<b>15</b>	<b>1 734</b>	<b>49 688</b>	<b>1 281</b>	<b>2 760</b>	<b>33 108</b>	<b>152 143</b>	<b>140 311</b>	<b>295 702</b>	<b>8 534</b>
332	Fabricated metal product mfg .....	1	11	5	611	14 775	438	893	11 711	27 402	26 195	55 106	2 180
<b>MAXTON, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>7</b>	<b>1 433</b>	<b>50 907</b>	<b>1 206</b>	<b>2 476</b>	<b>39 624</b>	<b>637 988</b>	<b>331 309</b>	<b>968 251</b>	<b>12 674</b>
311	Food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MEBANE, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>29</b>	<b>16</b>	<b>2 036</b>	<b>59 816</b>	<b>1 649</b>	<b>3 457</b>	<b>39 910</b>	<b>148 386</b>	<b>211 577</b>	<b>351 834</b>	<b>14 035</b>
335	Electrical equipment, appliance, & component mfg .....	3	2	2	f	D	D	D	D	D	D	D	D
<b>MOCKSVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>18</b>	<b>11</b>	<b>1 963</b>	<b>53 173</b>	<b>1 624</b>	<b>3 212</b>	<b>35 279</b>	<b>112 075</b>	<b>174 275</b>	<b>285 524</b>	<b>D</b>
333	Machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	1	4	3	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	3	3	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	1	3	3	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MONROE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>105</b>	<b>57</b>	<b>9 686</b>	<b>269 536</b>	<b>7 533</b>	<b>14 657</b>	<b>168 232</b>	<b>964 429</b>	<b>905 118</b>	<b>1 829 268</b>	<b>75 059</b>
311	Food mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	8	6		737	11 539	675	1 195	8 752	21 134	40 304	60 685
326	Plastics & rubber products mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326122	Plastics pipe & pipe fitting mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	1	1	g	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	23	6		704	21 871	533	1 039	14 467	34 752	20 586	54 943
333	Machinery mfg .....	-	11	6		813	30 527	438	815	11 978	78 212	47 640	122 151
336	Transportation equipment mfg .....	3	4	4	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	3	4	4	f	D	D	D	D	D	D	D	D
<b>MOORESVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>44</b>	<b>21</b>	<b>3 721</b>	<b>102 166</b>	<b>3 025</b>	<b>6 234</b>	<b>69 893</b>	<b>253 083</b>	<b>300 289</b>	<b>548 767</b>	<b>45 381</b>
313	Textile mills .....	-	5	4	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	3	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	2	1	f	D	D	D	D	D	D	D	D
314	Textile product mills.....	5	5	3	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	5	4	3	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	5	4	3	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	8	3		703	23 486	507	872	14 158	58 206	46 777	101 303
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MORGANTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>61</b>	<b>36</b>	<b>8 299</b>	<b>203 397</b>	<b>7 143</b>	<b>13 671</b>	<b>155 611</b>	<b>496 535</b>	<b>483 979</b>	<b>954 296</b>	<b>40 333</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	5	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	-	1	1	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MORGANTON, NC—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	-	16	10	2 367	54 038	2 210	3 481	40 802	145 175	66 605	208 655	8 016
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	16	10	2 367	54 038	2 210	3 481	40 802	145 175	66 605	208 655	8 016
33712	Household & institutional furniture mfg .....	-	16	10	2 367	54 038	2 210	3 481	40 802	145 175	66 605	208 655	8 016
337122	Nonupholstered wood household furniture mfg .....	-	8	6	g	D	D	D	D	D	D	D	D
<b>MOUNT AIRY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>55</b>	<b>33</b>	<b>9 063</b>	<b>183 480</b>	<b>8 038</b>	<b>16 756</b>	<b>147 685</b>	<b>442 323</b>	<b>586 666</b>	<b>998 389</b>	<b>25 870</b>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	19	15	6 148	116 975	5 518	11 652	96 123	300 754	257 008	529 045	13 242
3151	Apparel knitting mills .....	-	14	13	i	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ...	-	11	10	h	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	-	11	10	h	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	1	3	3	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	2	2	2	f	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	5	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
3352	Household appliance mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg...	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>MOUNT HOLLY, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>24</b>	<b>11</b>	<b>2 950</b>	<b>108 771</b>	<b>2 570</b>	<b>5 107</b>	<b>85 202</b>	<b>478 703</b>	<b>756 786</b>	<b>1 225 902</b>	<b>14 500</b>
313	Textile mills .....	-	9	8	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
313312	Textile & fabric finishing mills .....	-	6	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	1	1	g	D	D	D	D	D	D	D	D
<b>MOUNT OLIVE, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>5</b>	<b>3 179</b>	<b>71 712</b>	<b>2 874</b>	<b>2 783</b>	<b>54 347</b>	<b>227 693</b>	<b>301 745</b>	<b>533 305</b>	<b>16 756</b>
311	Food mfg .....	-	3	2	h	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing ....	-	1	1	g	D	D	D	D	D	D	D	D
<b>NASHVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>6</b>	<b>4</b>	<b>502</b>	<b>10 817</b>	<b>414</b>	<b>693</b>	<b>7 332</b>	<b>9 589</b>	<b>106 638</b>	<b>116 345</b>	<b>D</b>

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW BERN, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>50</b>	<b>14</b>	<b>3 246</b>	<b>72 357</b>	<b>2 655</b>	<b>4 441</b>	<b>55 394</b>	<b>144 518</b>	<b>437 722</b>	<b>582 997</b>	<b>D</b>
332	Fabricated metal product mfg . . . . .	-	5	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg . . . . .	-	2	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
332913	Plumbing fixture fitting & trim mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
3366	Ship & boat building . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
336611	Ship building & repairing . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
<b>NEWTON, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>70</b>	<b>37</b>	<b>5 777</b>	<b>151 769</b>	<b>5 006</b>	<b>9 340</b>	<b>105 474</b>	<b>329 168</b>	<b>360 142</b>	<b>686 644</b>	<b>19 558</b>
313	Textile mills . . . . .	-	5	4	528	12 436	480	886	9 594	29 619	43 093	70 835	2 984
315	Apparel mfg . . . . .	2	11	9	1 289	35 284	1 133	2 407	20 693	106 729	89 148	192 982	5 055
3151	Apparel knitting mills . . . . .	2	7	7	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	2	6	6	g	D	D	D	D	D	D	D	4 449
315119	Other hosiery & sock mills . . . . .	2	6	6	g	D	D	D	D	D	D	D	4 449
337	Furniture & related product mfg . . . . .	-	17	9	2 266	52 370	2 099	3 655	40 277	89 282	100 974	189 933	3 260
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	-	11	7	1 918	45 921	1 765	3 021	34 227	77 409	87 440	164 317	D
33712	Household & institutional furniture mfg . . . . .	-	11	7	1 918	45 921	1 765	3 021	34 227	77 409	87 440	164 317	D
337121	Upholstered household furniture mfg . . . . .	-	6	6	g	D	D	D	D	D	D	D	880
<b>NORTH WILKESBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>35</b>	<b>16</b>	<b>2 914</b>	<b>59 056</b>	<b>2 467</b>	<b>4 656</b>	<b>44 441</b>	<b>120 656</b>	<b>160 665</b>	<b>290 451</b>	<b>5 069</b>
315	Apparel mfg . . . . .	-	5	5	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
31522	Men's & boys' cut & sew apparel mfg . . . . .	-	3	3	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
327	Nonmetallic mineral product mfg . . . . .	-	6	2	683	13 053	540	1 063	8 648	33 519	40 078	73 613	2 466
3272	Glass & glass product mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	-	5	5	g	D	D	D	D	D	D	D	1 117
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	-	5	5	g	D	D	D	D	D	D	D	1 117
33712	Household & institutional furniture mfg . . . . .	-	5	5	g	D	D	D	D	D	D	D	1 117
337122	Nonupholstered wood household furniture mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>OXFORD, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>22</b>	<b>10</b>	<b>1 639</b>	<b>39 781</b>	<b>1 352</b>	<b>2 868</b>	<b>31 074</b>	<b>105 532</b>	<b>144 277</b>	<b>246 959</b>	<b>11 356</b>
313	Textile mills . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
<b>PINEVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	1	<b>23</b>	<b>7</b>	<b>551</b>	<b>14 005</b>	<b>341</b>	<b>571</b>	<b>7 290</b>	<b>41 559</b>	<b>49 374</b>	<b>89 498</b>	<b>2 158</b>
<b>PLYMOUTH, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>10</b>	<b>5</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>RAEFORD, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>9</b>	<b>5</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
311	Food mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
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
<b>RALEIGH, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>328</b>	<b>78</b>	<b>7 954</b>	<b>241 490</b>	<b>5 580</b>	<b>10 728</b>	<b>131 696</b>	<b>1 057 542</b>	<b>1 085 008</b>	<b>2 147 108</b>	<b>56 344</b>
322	Paper mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	4	80	7	677	19 316	486	926	11 762	38 125	21 097	59 109	2 603
3231	Printing & related support activities .....	4	80	7	677	19 316	486	926	11 762	38 125	21 097	59 109	2 603
32311	Printing .....	4	71	7	f	D	D	D	D	D	D	D	2 504
325	Chemical mfg .....	-	11	6	f	D	D	D	D	D	D	D	12 963
332	Fabricated metal product mfg .....	-	31	13	1 197	40 771	874	1 839	24 256	100 653	69 341	170 394	9 076
3323	Architectural & structural metals mfg .....	-	10	6	f	D	D	D	D	D	D	D	2 950
33232	Ornamental & architectural metal products mfg .....	-	9	5	544	19 199	429	982	12 556	39 136	29 523	68 588	D
332322	Sheet metal work mfg .	-	8	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	47	19	2 306	66 815	1 578	2 760	30 427	323 891	354 313	674 709	9 458
3342	Communications equipment mfg .....	-	7	4	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	13	10	g	D	D	D	D	D	D	D	6 058
33441	Semiconductor & other electronic component mfg .....	-	13	10	g	D	D	D	D	D	D	D	6 058
334418	Printed circuit assembly (electronic assembly) mfg .....	1	6	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	6	3	673	20 966	475	973	12 369	45 562	72 669	118 778	D
3359	Other electrical equipment & component mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
<b>RANDLEMAN, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>21</b>	<b>11</b>	<b>1 779</b>	<b>37 230</b>	<b>1 533</b>	<b>2 688</b>	<b>25 494</b>	<b>93 085</b>	<b>93 329</b>	<b>186 902</b>	<b>5 672</b>
315	Apparel mfg .....	-	5	3	719	11 633	621	812	7 203	34 470	27 254	62 146	D
3151	Apparel knitting mills .....	-	3	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	-	3	2	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	-	3	2	f	D	D	D	D	D	D	D	D

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>REIDSVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>43</b>	<b>24</b>	<b>3 722</b>	<b>122 840</b>	<b>3 076</b>	<b>6 011</b>	<b>93 122</b>	<b>296 170</b>	<b>635 254</b>	<b>928 893</b>	<b>16 166</b>
313	Textile mills .....	-	5	5	g	D	D	D	D	D	D	D	2 908
3131	Fiber, yarn, & thread mills .	-	3	3	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	3	3	f	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
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
332	Fabricated metal product mfg .....	-	9	5	563	23 310	410	994	17 523	61 709	151 796	211 384	6 625
<b>ROANOKE RAPIDS, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>21</b>	<b>10</b>	<b>2 456</b>	<b>79 835</b>	<b>2 040</b>	<b>2 909</b>	<b>60 127</b>	<b>95 705</b>	<b>250 888</b>	<b>351 202</b>	<b>50 709</b>
313	Textile mills .....	-	4	3	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 .	-	2	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	2	2	g	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>ROCKINGHAM, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>27</b>	<b>11</b>	<b>2 680</b>	<b>61 523</b>	<b>2 390</b>	<b>4 807</b>	<b>51 181</b>	<b>253 762</b>	<b>95 529</b>	<b>378 237</b>	<b>6 940</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	4	4	g	D	D	D	D	D	D	D	657
3151	Apparel knitting mills .....	-	3	3	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>ROCKY MOUNT, NC *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>65</b>	<b>31</b>	<b>7 886</b>	<b>220 310</b>	<b>6 006</b>	<b>13 352</b>	<b>153 934</b>	<b>767 332</b>	<b>707 279</b>	<b>1 474 962</b>	<b>62 697</b>
311	Food mfg .....	3	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	5	4	1 382	28 302	1 136	2 484	22 740	22 254	159 440	179 892	8 160
3132	Fabric mills .....	-	3	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	2	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	10	5	913	24 006	707	1 573	16 534	56 562	54 523	107 885	3 913
3325	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	6	2	f	D	D	D	D	D	D	D	777

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ROXBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>24</b>	<b>14</b>	<b>3 203</b>	<b>87 912</b>	<b>2 494</b>	<b>5 461</b>	<b>63 196</b>	<b>247 320</b>	<b>327 444</b>	<b>575 293</b>	<b>35 543</b>
313	Textile mills . . . . .	-	4	4	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
336	Transportation equipment mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>RUTHERFORDTON, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>12</b>	<b>8</b>	<b>1 305</b>	<b>32 903</b>	<b>1 073</b>	<b>2 068</b>	<b>22 152</b>	<b>76 659</b>	<b>82 932</b>	<b>159 785</b>	<b>7 941</b>
<b>SALISBURY, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>100</b>	<b>55</b>	<b>5 790</b>	<b>166 708</b>	<b>4 626</b>	<b>9 684</b>	<b>120 789</b>	<b>456 869</b>	<b>531 365</b>	<b>984 337</b>	<b>30 906</b>
313	Textile mills . . . . .	-	8	6	1 722	45 814	1 576	3 561	39 356	106 254	117 357	227 078	7 021
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
326	Plastics & rubber products mfg . . . . .	-	8	6	521	12 909	380	802	7 823	32 614	24 147	56 826	1 668
333	Machinery mfg . . . . .	-	10	8	f	D	D	D	D	D	D	D	D
<b>SANFORD, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>2</b>	<b>77</b>	<b>45</b>	<b>10 365</b>	<b>277 766</b>	<b>7 805</b>	<b>15 862</b>	<b>162 700</b>	<b>1 091 937</b>	<b>854 575</b>	<b>1 951 559</b>	<b>124 900</b>
311	Food mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
31183	Tortilla mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	-	9	9	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	-	8	8	g	D	D	D	D	D	D	D	33 288
31311	Fiber, yarn, & thread mills . . . . .	-	8	8	g	D	D	D	D	D	D	D	33 288
313111	Yarn spinning mills . . . . .	-	6	6	829	22 416	786	1 629	17 687	43 767	128 514	173 279	33 288
325	Chemical mfg . . . . .	5	4	3	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	9	1	1	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg . . . . .	9	1	1	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg . . . . .	9	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	5	3	1 115	22 913	821	1 681	14 701	49 211	89 169	139 030	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	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	7	5	894	28 487	763	1 515	21 689	52 275	95 459	141 178	D
3329	Other fabricated metal product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
332998	Enameled iron & metal sanitary ware mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	-	10	5	1 029	33 420	664	1 471	14 833	67 586	71 401	136 760	8 165
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
335931	Current-carrying wiring device mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>SANFORD, NC—Con.</b>												
	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . .	—	2	2	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
	<b>SELMA, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>9</b>	<b>5</b>	<b>804</b>	<b>20 161</b>	<b>655</b>	<b>1 140</b>	<b>13 042</b>	<b>55 421</b>	<b>65 244</b>	<b>119 270</b>	<b>8 949</b>
	<b>SHELBY, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>51</b>	<b>26</b>	<b>5 063</b>	<b>159 896</b>	<b>4 205</b>	<b>8 393</b>	<b>119 003</b>	<b>605 864</b>	<b>506 093</b>	<b>1 116 792</b>	<b>51 586</b>
325	Chemical mfg . . . . .	—	3	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
327	Nonmetallic mineral product mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
	<b>SILER CITY, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>25</b>	<b>17</b>	<b>4 768</b>	<b>88 491</b>	<b>4 308</b>	<b>8 082</b>	<b>70 926</b>	<b>160 151</b>	<b>246 023</b>	<b>405 204</b>	<b>19 303</b>
311	Food mfg . . . . .	—	5	3	1 661	32 123	1 492	2 935	26 005	34 226	117 734	151 742	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 . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	7	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	—	2	1	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
315111	Sheer hosiery mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	—	4	4	679	5 062	615	1 209	3 434	12 245	10 615	23 087	D
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
	<b>SMITHFIELD, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>27</b>	<b>9</b>	<b>1 363</b>	<b>29 602</b>	<b>1 027</b>	<b>1 888</b>	<b>18 839</b>	<b>77 823</b>	<b>213 616</b>	<b>292 706</b>	<b>12 002</b>
	<b>SPINDALE, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>17</b>	<b>10</b>	<b>2 910</b>	<b>66 485</b>	<b>2 376</b>	<b>4 827</b>	<b>46 973</b>	<b>138 866</b>	<b>203 248</b>	<b>334 753</b>	<b>10 135</b>
313	Textile mills . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
	<b>STANLEY, NC</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>2</b>	<b>11</b>	<b>8</b>	<b>1 103</b>	<b>25 672</b>	<b>840</b>	<b>1 581</b>	<b>16 809</b>	<b>63 174</b>	<b>44 040</b>	<b>104 979</b>	<b>4 597</b>

**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	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>STATESVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>134</b>	<b>73</b>	<b>9 475</b>	<b>269 653</b>	<b>6 928</b>	<b>14 967</b>	<b>162 801</b>	<b>878 716</b>	<b>1 191 094</b>	<b>2 034 689</b>	<b>50 905</b>
313	Textile mills .....	1	20	17	1 555	38 980	1 337	2 747	29 346	90 146	109 330	195 598	D
3132	Fabric mills .....	2	14	12	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	4	7	7	526	11 683	462	928	9 211	32 797	38 691	69 348	333
315	Apparel mfg .....	-	5	5	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	4	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	10	8	1 115	32 180	884	1 827	21 912	89 516	104 017	196 627	7 224
3261	Plastics product mfg .....	2	8	7	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	2	4	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	2	4	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	9	6	1 102	45 148	694	1 571	24 237	115 091	139 503	253 889	8 778
3331	Agriculture, construction, & mining machinery mfg ....	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	3	3	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
337	Furniture & related product mfg .....	1	13	7	712	15 119	598	2 045	11 355	26 328	39 524	65 806	1 003
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	10	6	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	1	10	6	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	3	9	4	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	4	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	4	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	4	5	3	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	9	2	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	9	2	2	f	D	D	D	D	D	D	D	D
<b>TARBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>19</b>	<b>13</b>	<b>4 017</b>	<b>112 940</b>	<b>3 310</b>	<b>7 006</b>	<b>80 203</b>	<b>286 899</b>	<b>308 047</b>	<b>596 301</b>	<b>D</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg ....	-	1	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, & other pastries mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	4	4	1 133	27 908	962	2 230	19 516	73 750	72 548	144 436	D
3132	Fabric mills .....	-	3	3	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>THOMASVILLE, NC *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>110</b>	<b>49</b>	<b>6 697</b>	<b>158 352</b>	<b>5 596</b>	<b>11 225</b>	<b>114 161</b>	<b>352 217</b>	<b>356 863</b>	<b>709 283</b>	<b>25 040</b>
315	Apparel mfg .....	2	11	7	f	D	D	D	D	D	D	D	1 661
321	Wood product mfg .....	1	14	9	517	11 219	439	794	8 200	17 479	16 313	33 764	1 234
337	Furniture & related product mfg .....	—	37	12	3 114	76 505	2 551	4 960	53 780	143 106	118 561	259 775	6 301
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	25	8	2 851	71 188	2 320	4 544	49 681	137 869	101 019	237 012	D
33712	Household & institutional furniture mfg .....	—	25	8	2 851	71 188	2 320	4 544	49 681	137 869	101 019	237 012	D
337122	Nonupholstered wood household furniture mfg .....	—	8	2	g	D	D	D	D	D	D	D	D
	<b>TROY, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>15</b>	<b>6</b>	<b>805</b>	<b>16 741</b>	<b>674</b>	<b>1 360</b>	<b>11 057</b>	<b>36 941</b>	<b>41 311</b>	<b>78 196</b>	<b>4 041</b>
	<b>VALDESE, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>21</b>	<b>13</b>	<b>3 695</b>	<b>87 049</b>	<b>2 749</b>	<b>5 474</b>	<b>51 166</b>	<b>188 121</b>	<b>184 054</b>	<b>375 574</b>	<b>11 895</b>
311	Food mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	—	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	—	7	6	1 293	29 476	1 127	2 304	22 988	61 230	75 402	138 034	5 005
3133	Textile & fabric finishing & fabric coating mills .....	—	3	3	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	—	3	3	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills .....	—	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	7	4	g	D	D	D	D	D	D	D	2 078
3151	Apparel knitting mills .....	—	7	4	g	D	D	D	D	D	D	D	2 078
31519	Other apparel knitting mills .....	—	1	1	f	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills .....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>WADESBORO, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>17</b>	<b>7</b>	<b>1 429</b>	<b>32 938</b>	<b>1 229</b>	<b>2 501</b>	<b>24 370</b>	<b>82 830</b>	<b>82 155</b>	<b>165 121</b>	<b>5 401</b>
313	Textile mills .....	—	3	3	f	D	D	D	D	D	D	D	D
	<b>WAKE FOREST, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>10</b>	<b>4</b>	<b>607</b>	<b>19 018</b>	<b>419</b>	<b>977</b>	<b>12 768</b>	<b>51 668</b>	<b>27 921</b>	<b>79 870</b>	<b>D</b>
	<b>WALLACE, NC *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>11</b>	<b>6</b>	<b>1 121</b>	<b>22 265</b>	<b>946</b>	<b>1 982</b>	<b>16 423</b>	<b>31 249</b>	<b>156 980</b>	<b>192 379</b>	<b>2 451</b>
	<b>WASHINGTON, NC</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>34</b>	<b>12</b>	<b>3 613</b>	<b>81 194</b>	<b>3 020</b>	<b>5 848</b>	<b>58 000</b>	<b>119 903</b>	<b>156 256</b>	<b>296 294</b>	<b>8 630</b>
313	Textile mills .....	—	2	1	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .....	—	1	1	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	—	1	1	g	D	D	D	D	D	D	D	D
313111	Yarn spinning mills .....	—	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	4	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WAYNESVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>22</b>	<b>7</b>	<b>1 570</b>	<b>46 547</b>	<b>1 320</b>	<b>2 760</b>	<b>37 457</b>	<b>29 816</b>	<b>297 148</b>	<b>339 520</b>	<b>2 604</b>
326	Plastics & rubber products mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	1	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
<b>WENDELL, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>15</b>	<b>3</b>	<b>610</b>	<b>20 239</b>	<b>388</b>	<b>719</b>	<b>7 983</b>	<b>54 205</b>	<b>61 466</b>	<b>121 402</b>	<b>1 380</b>
<b>WHITEVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>15</b>	<b>8</b>	<b>1 862</b>	<b>36 977</b>	<b>1 608</b>	<b>3 191</b>	<b>29 687</b>	<b>131 785</b>	<b>112 249</b>	<b>244 272</b>	<b>D</b>
315	Apparel mfg .....	-	4	3	1 318	20 796	1 138	2 153	16 437	86 550	53 122	139 557	D
3152	Cut & sew apparel mfg ....	-	4	3	1 318	20 796	1 138	2 153	16 437	86 550	53 122	139 557	D
31521	Cut & sew apparel contractors .....	-	2	1	f	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors .....	-	1	1	f	D	D	D	D	D	D	D	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
<b>WILKESBORO, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>33</b>	<b>15</b>	<b>4 274</b>	<b>86 397</b>	<b>3 854</b>	<b>7 376</b>	<b>68 194</b>	<b>174 437</b>	<b>368 905</b>	<b>544 484</b>	<b>8 044</b>
311	Food mfg .....	-	5	5	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	4	4	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	6	5	4	1 110	21 314	999	1 881	16 716	36 582	46 843	85 435	D
3151	Apparel knitting mills .....	5	2	2	f	D	D	D	D	D	D	D	D
<b>WILMINGTON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>139</b>	<b>41</b>	<b>5 257</b>	<b>201 995</b>	<b>3 933</b>	<b>7 679</b>	<b>136 696</b>	<b>700 865</b>	<b>560 360</b>	<b>1 241 089</b>	<b>52 799</b>
325	Chemical mfg .....	-	12	5	1 620	74 288	1 225	2 575	52 606	346 381	160 233	493 539	D
3251	Basic chemical mfg .....	-	6	3	1 373	63 492	1 039	2 174	44 534	280 685	121 318	413 011	D
32518	Other basic inorganic chemical mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	-	1	1	g	D	D	D	D	D	D	D	D
<b>WILSON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>70</b>	<b>30</b>	<b>7 534</b>	<b>238 487</b>	<b>6 095</b>	<b>12 650</b>	<b>159 744</b>	<b>833 769</b>	<b>1 991 820</b>	<b>2 821 091</b>	<b>65 166</b>
312	Beverage & tobacco product mfg .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
3122	Tobacco mfg .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
31221	Tobacco stemming & redrying .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
312210	Tobacco stemming & redrying .....	-	3	3	1 657	47 465	1 227	2 653	20 764	202 284	1 400 228	1 598 576	D
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
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	8	6	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) .....	-	2	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WINSTON-SALEM, NC</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>241</b>	<b>94</b>	<b>17 789</b>	<b>582 965</b>	<b>14 025</b>	<b>26 946</b>	<b>406 953</b>	<b>2 444 535</b>	<b>2 012 928</b>	<b>4 449 718</b>	<b>136 990</b>
311	Food mfg . . . . .	—	18	10	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . .	—	12	6	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg . . . . .	—	9	5	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg . . . . .	—	5	5	2 220	108 531	1 656	2 774	78 817	1 104 851	512 443	1 616 531	45 702
3121	Beverage mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
31212	Breweries . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3122	Tobacco mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
31222	Tobacco product mfg . . . .	—	3	3	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 . . . . .	—	8	5	g	D	D	D	D	D	D	D	2 869
3133	Textile & fabric finishing & fabric coating mills . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	1	8	6	h	D	D	D	D	D	D	D	D
3151	Apparel knitting mills . . . . .	1	3	3	g	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . .	1	2	2	g	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills . . . .	1	2	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . .	2	3	3	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	1	2	2	g	D	D	D	D	D	D	D	D
315221	Men's & boys' cut & sew underwear & nightwear mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg . . . . .	9	1	1	g	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	—	10	7	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	—	10	7	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	—	6	5	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
322225	Laminated aluminum foil mfg for flexible packaging uses . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	1	47	13	1 088	30 060	804	1 514	18 925	71 546	28 836	100 459	6 030
3231	Printing & related support activities . . . . .	1	47	13	1 088	30 060	804	1 514	18 925	71 546	28 836	100 459	6 030
32311	Printing . . . . .	1	40	10	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	24	13	1 669	52 156	1 314	2 402	37 907	158 718	147 061	303 355	8 451
3325	Hardware mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33251	Hardware mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
332510	Hardware mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	—	9	6	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	—	4	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
33591	Battery mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . .	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	6	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . .	—	3	1	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WINSTON-SALEM, NC</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—</b>												
	<b>Con.</b>												
337	Furniture & related product mfg .....	—	16	6	825	18 938	696	1 315	14 114	37 201	24 864	63 050	1 933
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	8	2	f	D	D	D	D	D	D	D	D
<b>WINTERVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>4</b>	<b>3</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>1 436</b>
334	Computer & electronic product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
334113	Computer terminal mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>WOODFIN, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>12</b>	<b>7</b>	<b>888</b>	<b>23 394</b>	<b>665</b>	<b>1 249</b>	<b>13 908</b>	<b>71 044</b>	<b>49 222</b>	<b>119 350</b>	<b>2 889</b>
<b>YADKINVILLE, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>13</b>	<b>7</b>	<b>2 834</b>	<b>72 509</b>	<b>2 461</b>	<b>4 911</b>	<b>53 725</b>	<b>191 027</b>	<b>497 002</b>	<b>691 831</b>	<b>D</b>
313	Textile mills .....	—	1	1	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	—	1	1	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	—	1	1	g	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	—	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	—	3	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	—	1	1	f	D	D	D	D	D	D	D	D
315111	Sheer hosiery mills ...	—	1	1	f	D	D	D	D	D	D	D	D
<b>ZEBULON, NC</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>13</b>	<b>6</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
325	Chemical mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	—	1	1	f	D	D	D	D	D	D	D	D

<sup>1</sup>Some 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.

<sup>2</sup>Industries 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
<b>NORTH CAROLINA</b>		<b>NORTH CAROLINA—Con.</b>	
Companies <sup>1</sup> .....	9 857	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 35 292 205
All establishments .....	11 306	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 433 537
Establishments with 1 to 19 employees .....	6 685	Total value of shipments .....	\$1,000.. 161 900 477
Establishments with 20 to 99 employees .....	2 847	Value of resales .....	\$1,000.. 10 170 165
Establishments with 100 employees or more .....	1 774	Value added .....	\$1,000.. 78 638 044
All employees .....	773 548	Total inventories, beginning of year .....	\$1,000.. 17 062 504
Total compensation <sup>2</sup> .....	\$1,000.. 26 627 382	Finished goods inventories, beginning of year .....	\$1,000.. 5 982 036
Annual payroll .....	\$1,000.. 21 297 913	Work-in-process inventories, beginning of year .....	\$1,000.. 4 125 256
Total fringe benefits .....	\$1,000.. 5 329 469	Materials and supplies inventories, beginning of year .....	\$1,000.. 6 955 212
Production workers, average for year .....	601 190	Total inventories, end of year .....	\$1,000.. 17 104 069
Production workers on March 12 .....	601 638	Finished goods inventories, end of year .....	\$1,000.. 6 255 550
Production workers on May 12 .....	599 954	Work-in-process inventories, end of year .....	\$1,000.. 3 900 757
Production workers on August 12 .....	601 350	Materials and supplies inventories, end of year .....	\$1,000.. 6 947 762
Production workers on November 12 .....	601 818	Gross book value of total assets at beginning of year .....	\$1,000.. 57 395 056
Production-worker hours .....	1 195 802	Total capital expenditures (new and used) .....	\$1,000.. 5 389 012
Production-worker wages .....	\$1,000.. 14 060 952	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 792 765
Total cost of materials .....	\$1,000.. 83 255 618	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 596 247
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 72 188 471	Total retirements <sup>2</sup> .....	\$1,000.. 1 571 227
Cost of resales .....	\$1,000.. 7 240 372	Gross book value of total assets at end of year .....	\$1,000.. 61 212 841
Cost of fuels .....	\$1,000.. 783 690	Total depreciation during year <sup>2</sup> .....	\$1,000.. 3 626 355
Cost of purchased electricity .....	\$1,000.. 1 677 038	Total rental payments <sup>2</sup> .....	\$1,000.. 883 134
Cost of contract work .....	\$1,000.. 1 366 047	Buildings and other structures rental payments <sup>2</sup> .....	\$1,000.. 367 468
		Machinery and equipment rental payments <sup>2</sup> .....	\$1,000.. 515 666

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

<sup>2</sup>These items are collected in the ASM and estimated for the remaining establishments.

# Appendix A.

## Explanation of Terms

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### **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

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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

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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

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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

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### 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



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This definition comes from the 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.

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### **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.

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### **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.

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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

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## **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

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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



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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)

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### **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.

### **3131113 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 3131113 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.

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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.

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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.



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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

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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.

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### **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)

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### **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

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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

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### **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)

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### **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)

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This definition comes from the 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.

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### **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).

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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.

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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.



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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.

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### **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

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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.

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### **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

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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.



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### **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.

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### **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.

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### **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.

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### **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

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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

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product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

### **332111 Iron and Steel Forging**

This U.S. industry comprises establishments primarily engaged in manufacturing iron and steel forgings from purchased iron and steel by hammering mill shapes. Establishments making iron and steel forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Iron and steel forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332111 include the following SIC industry:

3462 Iron and steel forgings

### **332112 Nonferrous Forging**

This U.S. industry comprises establishments primarily engaged in manufacturing nonferrous forgings from purchased nonferrous metals by hammering mill shapes. Establishments making nonferrous forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Nonferrous forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332112 include the following SIC industry:

3463 Nonferrous forgings

### **332114 Custom Roll Forming**

This U.S. industry comprises establishments primarily engaged in custom roll forming metal products by use of rotary motion of rolls with various contours to bend or shape the products.

The data published with NAICS code 332114 include the following SIC industry:

3449 Miscellaneous metal work (pt)

### **332115 Crown and Closure Manufacturing**

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

### **332116 Metal Stamping**

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

The data published with NAICS code 332116 include the following SIC industry:

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

### **332117 Powder Metallurgy Parts Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

The data published with NAICS code 332117 include the following SIC industry:

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

### **3322 Cutlery and Handtool Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

#### **33221 Cutlery and Handtool Manufacturing**

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nonprecious and precious plated metal cutlery and flatware; (2) manufacturing nonpowered hand and edge tools; (3) manufacturing nonpowered handsaws; (4) manufacturing saw blades, all types (including those for sawing machines); and (5) manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

#### **332211 Cutlery and Flatware (Except Precious) Manufacturing**

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

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

3421 Cutlery

3914 Silverware and plated ware (pt)

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This definition comes from the 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

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### **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)

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### **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.



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### **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.

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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

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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.

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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)

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### **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)

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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

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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).

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### **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.



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### **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

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### **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.

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### **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.

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### **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

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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

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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

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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.

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### **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).



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### **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.

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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.

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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.

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### **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)

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### **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.

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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.



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### **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.

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### **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,

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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)

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This definition comes from the 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

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This definition comes from the 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

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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

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### **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

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### 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.

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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

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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

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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

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### **NORTH CAROLINA**

**Archdale** is in Guilford and Randolph Counties.

**Cary** is in Chatham and Wake Counties; it annexed into Chatham County in April 1995.

**Chapel Hill** is in Durham and Orange Counties.

**Davidson** is in Iredell and Mecklenburg Counties.

**Durham** is in Durham and Orange Counties.

**Elizabeth City** is in Camden and Pasquotank Counties.

**Elkin** is in Surry and Wilkes Counties.

**Gibsonville** is in Alamance and Guilford Counties.

**Hickory** is in Burke and Catawba Counties.

**High Point** is in Davidson, Forsyth, Guilford, and Randolph Counties.

**Kannapolis** is in Cabarrus and Rowan Counties.

**Kernersville** is in Forsyth and Guilford Counties.

**King** is in Forsyth and Stokes Counties.

**Kings Mountain** is in Cleveland and Gaston Counties.

**Long View** is in Burke and Catawba Counties.

**Maxton** is in Robeson and Scotland Counties.

**Mebane** is in Alamance and Orange Counties.

**Mount Olive** is in Duplin and Wayne Counties.

**Rocky Mount** is in Edgecombe and Nash Counties.

**Thomasville** is in Davidson and Randolph Counties; it annexed into Randolph County in October 1996.

**Wallace** is in Duplin and Pender Counties.

**Weddington** is in Mecklenburg and Union Counties.

# Appendix E.

## Metropolitan Areas

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### **NORTH CAROLINA**

#### **Asheville, NC MSA**

Buncombe County, NC

Madison County, NC

#### **Charlotte—Gastonia—Rock Hill, NC—SC MSA**

Cabarrus County, NC

Gaston County, NC

Lincoln County, NC

Mecklenburg County, NC

Rowan County, NC

Union County, NC

York County, SC

#### **Fayetteville, NC MSA**

Cumberland County, NC

#### **Goldsboro, NC MSA**

Wayne County, NC

#### **Greensboro—Winston-Salem—High Point, NC MSA**

Alamance County, NC

Davidson County, NC

Davie County, NC

Forsyth County, NC

Guilford County, NC

Randolph County, NC

Stokes County, NC

Yadkin County, NC

#### **Greenville, NC MSA**

Pitt County, NC

#### **Hickory—Morganton—Lenoir, NC MSA**

Alexander County, NC

Burke County, NC

Caldwell County, NC

Catawba County, NC

#### **Jacksonville, NC MSA**

Onslow County, NC

#### **Norfolk—Virginia Beach—Newport News, VA—NC MSA**

Currituck County, NC

Gloucester County, VA

Isle of Wight County, VA

James City County, VA

Mathews County, VA

York County, VA

Chesapeake, VA (IC)

Hampton, VA (IC)

Newport News, VA (IC)

Norfolk, VA (IC)

Poquoson, VA (IC)

Portsmouth, VA (IC)

Suffolk, VA (IC)

Virginia Beach, VA (IC)

Williamsburg, VA (IC)

#### **Raleigh—Durham—Chapel Hill, NC MSA**

Chatham County, NC

Durham County, NC

Franklin County, NC

Johnston County, NC

Orange County, NC

Wake County, NC

#### **Rocky Mount, NC MSA**

Edgecombe County, NC

Nash County, NC

#### **Wilmington, NC MSA**

Brunswick County, NC

New Hanover County, NC



