

Georgia

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**1997 Economic Census**

*Manufacturing*

Geographic Area Series



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

*Helping You Make Informed Decisions*

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



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Secretary

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# 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**

[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	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>GEORGIA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>9 083</b>	<b>3 301</b>	<b>533 830</b>	<b>15 534 058</b>	<b>410 713</b>	<b>830 245</b>	<b>10 173 353</b>	<b>55 550 096</b>	<b>69 434 257</b>	<b>124 526 834</b>	<b>4 166 388</b>
311	Food mfg . . . . .	1	527	242	60 320	1 402 200	48 970	97 540	968 780	6 270 758	9 088 459	15 346 399	364 057
3111	Animal food mfg . . . . .	1	58	27	1 681	52 300	1 070	2 290	29 735	495 856	1 080 226	1 576 443	25 979
31111	Animal food mfg . . . . .	1	58	27	1 681	52 300	1 070	2 290	29 735	495 856	1 080 226	1 576 443	25 979
311111	Dog & cat food mfg . . . . .	-	2	1	c	D	D	D	D	D	D	D	D
311119	Other animal food mfg . . . . .	1	56	26	g	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling . . . . .	-	30	18	1 446	50 248	1 080	2 543	33 450	407 874	1 203 214	1 624 004	31 144
31121	Flour milling & malt mfg . . . . .	-	9	2	e	D	D	D	D	D	D	D	D
311211	Flour milling . . . . .	-	9	2	e	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg . . . . .	-	19	14	936	29 539	676	1 603	19 068	161 426	1 031 838	1 204 137	24 877
311222	Soybean processing . . . . .	-	2	2	c	D	D	D	D	D	D	D	D
311223	Other oilseed processing . . . . .	-	4	4	c	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending . . . . .	-	13	8	563	18 029	422	991	12 803	43 082	453 468	504 293	4 813
31123	Breakfast cereal mfg . . . . .	1	2	2	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg . . . . .	1	2	2	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg . . . . .	-	32	10	2 560	76 998	2 072	4 352	56 965	480 997	722 532	1 200 012	13 041
31131	Sugar mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg . . . . .	-	19	7	g	D	D	D	D	D	D	D	11 302
311340	Nonchocolate confectionery mfg . . . . .	-	19	7	g	D	D	D	D	D	D	D	11 302
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	6	17	8	1 843	38 268	1 537	3 574	28 664	112 959	130 016	242 382	8 333
31141	Frozen food mfg . . . . .	6	4	2	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg . . . . .	9	2	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg . . . . .	-	2	1	c	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying . . . . .	6	13	6	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning . . . . .	7	10	5	540	12 140	447	967	8 765	39 308	47 928	87 303	D
311422	Specialty canning . . . . .	-	3	1	c	D	D	D	D	D	D	D	D
3115	Dairy product mfg . . . . .	-	18	11	1 465	41 280	983	2 309	24 775	147 307	344 118	493 014	8 896
31151	Dairy product (except frozen) mfg . . . . .	-	13	8	843	26 187	568	1 249	15 549	88 058	251 256	341 260	D
311511	Fluid milk mfg . . . . .	-	8	5	574	18 588	348	779	9 978	37 858	128 086	167 969	3 114
311513	Cheese mfg . . . . .	-	3	2	c	D	D	D	D	D	D	D	D
311514	Dry, condensed, & evaporated dairy product mfg . . . . .	-	2	1	c	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg . . . . .	-	5	3	622	15 093	415	1 060	9 226	59 249	92 862	151 754	D
311520	Ice cream & frozen dessert mfg . . . . .	-	5	3	622	15 093	415	1 060	9 226	59 249	92 862	151 754	D
3116	Meat product mfg . . . . .	1	122	74	34 197	635 476	30 458	59 116	505 695	1 568 184	3 415 881	4 951 140	109 258
31161	Animal slaughtering & processing . . . . .	1	122	74	34 197	635 476	30 458	59 116	505 695	1 568 184	3 415 881	4 951 140	109 258
311611	Animal (except poultry) slaughtering . . . . .	3	39	9	1 206	26 659	1 073	2 211	20 589	68 546	256 217	324 730	3 700
311612	Meat processed from carcasses . . . . .	-	32	17	2 972	70 634	2 354	4 722	46 174	254 356	432 556	684 393	9 422
311613	Rendering & meat byproduct processing . . . . .	2	10	8	432	11 258	266	538	5 570	44 176	65 072	109 259	3 727
311615	Poultry processing . . . . .	1	41	40	29 587	526 925	26 765	51 645	433 362	1 201 106	2 662 036	3 832 758	92 409
3117	Seafood product preparation & packaging . . . . .	1	11	5	1 278	27 981	974	1 660	13 603	34 266	166 796	201 159	3 330
31171	Seafood product preparation & packaging . . . . .	1	11	5	1 278	27 981	974	1 660	13 603	34 266	166 796	201 159	3 330
311712	Fresh & frozen seafood processing . . . . .	-	8	5	1 266	27 611	963	1 634	13 346	33 298	164 563	197 969	3 230
3118	Bakeries & tortilla mfg . . . . .	1	169	51	10 351	298 575	6 572	12 941	171 724	1 122 805	760 869	1 887 878	88 832
31181	Bread & bakery product mfg . . . . .	1	137	32	5 600	152 213	2 741	5 483	68 160	488 705	315 335	805 697	50 524
311811	Retail bakeries . . . . .	6	82	2	357	4 065	212	241	2 004	10 403	6 273	16 673	578
311812	Commercial bakeries . . . . .	-	48	24	4 486	124 437	1 944	3 900	50 145	393 811	223 144	616 835	27 546
311813	Frozen cakes, pies, & other pastries mfg . . . . .	4	7	6	757	23 711	585	1 342	16 011	84 491	85 918	172 189	22 400
31182	Cookie, cracker, & pasta mfg . . . . .	-	26	15	4 250	135 303	3 411	6 673	95 342	605 688	416 443	1 024 526	36 743
311821	Cookie & cracker mfg . . . . .	-	16	9	3 136	106 186	2 543	5 189	74 859	462 987	289 099	753 672	27 564
311822	Flour mixes & dough mfg from purchased flour . . . . .	1	7	6	1 100	28 806	857	1 472	20 298	140 964	126 657	268 428	9 128
31183	Tortilla mfg . . . . .	1	6	4	501	11 059	420	785	8 222	28 412	29 091	57 655	1 565
311830	Tortilla mfg . . . . .	1	6	4	501	11 059	420	785	8 222	28 412	29 091	57 655	1 565

**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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
311	Food mfg—Con.												
3119	Other food mfg . . . . .	1	70	38	5 499	181 074	4 224	8 755	104 169	1 900 510	1 264 807	3 170 367	75 244
31191	Snack food mfg . . . . .	—	20	17	2 927	94 160	2 466	5 045	56 869	527 812	619 189	1 156 725	38 865
311911	Roasted nuts & peanut butter mfg . . . . .	1	12	10	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg . . . . .	—	8	7	g	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg . . . . .	—	6	2	390	13 524	252	564	6 500	37 885	35 111	73 361	D
311920	Coffee & tea mfg . . . . .	—	6	2	390	13 524	252	564	6 500	37 885	35 111	73 361	D
31193	Flavoring syrup & concentrate mfg . . . . .	2	8	4	558	21 224	301	700	12 464	1 163 612	332 618	1 490 799	13 378
311930	Flavoring syrup & concentrate mfg . . . . .	2	8	4	558	21 224	301	700	12 464	1 163 612	332 618	1 490 799	13 378
31194	Seasoning & dressing mfg . . . . .	3	13	7	954	36 017	701	1 434	19 267	125 578	196 874	322 766	D
311941	Mayonnaise, dressing, & other prepared sauce mfg . . . . .	7	6	3	440	14 209	343	736	8 827	53 975	73 209	127 227	D
311942	Spice & extract mfg . . . . .	—	7	4	514	21 808	358	698	10 440	71 603	123 665	195 539	2 767
31199	All other food mfg . . . . .	4	23	8	670	16 149	504	1 012	9 069	45 623	81 015	126 716	9 534
311999	All other miscellaneous food mfg . . . . .	4	18	8	654	15 759	490	988	8 829	44 307	79 665	124 050	D
312	Beverage & tobacco product mfg . . . . .	—	63	26	7 306	369 545	4 891	9 875	234 510	4 499 869	2 174 619	6 675 244	206 226
3121	Beverage mfg . . . . .	—	60	23	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg . . . . .	—	47	18	2 794	96 657	1 428	3 056	39 498	719 015	755 229	1 470 882	39 893
312111	Soft drink mfg . . . . .	—	18	13	2 402	85 454	1 240	2 696	35 248	674 423	726 836	1 397 762	38 594
312112	Bottled water mfg . . . . .	1	7	3	274	8 502	112	220	2 712	34 879	23 540	58 591	939
312113	Ice mfg . . . . .	2	22	2	118	2 701	76	140	1 538	9 713	4 853	14 529	360
31212	Breweries . . . . .	—	9	3	g	D	D	D	D	D	D	D	D
312120	Breweries . . . . .	—	9	3	g	D	D	D	D	D	D	D	D
3122	Tobacco mfg . . . . .	—	3	3	h	D	D	D	D	D	D	D	D
31222	Tobacco product mfg . . . . .	—	3	3	h	D	D	D	D	D	D	D	D
312221	Cigarette mfg . . . . .	—	1	1	h	D	D	D	D	D	D	D	D
312229	Other tobacco product mfg . . . . .	6	2	2	c	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	1	300	197	52 411	1 256 297	46 443	98 312	1 019 944	2 902 553	4 701 784	7 615 479	288 323
3131	Fiber, yarn, & thread mills . . . . .	—	93	74	19 626	443 144	17 958	37 905	384 986	843 735	1 961 006	2 837 752	73 766
31311	Fiber, yarn, & thread mills . . . . .	—	93	74	19 626	443 144	17 958	37 905	384 986	843 735	1 961 006	2 837 752	73 766
313111	Yarn spinning mills . . . . .	—	60	47	13 410	302 120	12 291	25 923	266 637	581 384	1 040 812	1 650 285	59 071
313112	Yarn texturing, throwing, & twisting mills . . . . .	—	30	25	6 070	138 301	5 579	11 781	117 112	258 687	908 876	1 170 132	D
313113	Thread mills . . . . .	—	3	2	146	2 723	88	201	1 237	3 664	11 318	17 335	D
3132	Fabric mills . . . . .	2	121	77	24 866	632 489	21 664	46 710	496 706	1 497 136	2 170 492	3 674 686	166 941
31321	Broadwoven fabric mills . . . . .	2	74	52	21 328	542 333	18 745	40 541	435 896	1 317 234	1 797 174	3 125 643	129 388
313210	Broadwoven fabric mills . . . . .	2	74	52	21 328	542 333	18 745	40 541	435 896	1 317 234	1 797 174	3 125 643	129 388
31322	Narrow fabric mills & schiffli machine embroidery . . . . .	6	14	3	204	4 579	176	386	3 271	9 685	7 163	16 696	519
313221	Narrow fabric mills . . . . .	6	11	3	c	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills . . . . .	1	20	10	1 341	41 961	1 045	2 269	27 536	94 490	241 715	334 069	24 092
313230	Nonwoven fabric mills . . . . .	1	20	10	1 341	41 961	1 045	2 269	27 536	94 490	241 715	334 069	24 092
31324	Knit fabric mills . . . . .	2	13	12	1 993	43 616	1 698	3 514	30 003	75 727	124 440	198 278	12 942
313241	Weft knit fabric mills . . . . .	2	7	7	1 107	24 140	922	1 969	14 381	39 051	62 225	100 709	3 395
313249	Other knit fabric & lace mills . . . . .	2	6	5	886	19 476	776	1 545	15 622	36 676	62 215	97 569	9 547
3133	Textile & fabric finishing & fabric coating mills . . . . .	—	86	46	7 919	180 664	6 821	13 697	138 252	561 682	570 286	1 103 041	47 616
31331	Textile & fabric finishing mills . . . . .	—	78	42	7 681	173 405	6 632	13 316	133 053	537 850	527 378	1 038 345	46 733
313311	Broadwoven fabric finishing mills . . . . .	—	52	24	4 286	99 949	3 691	7 667	76 474	390 504	324 885	687 644	38 227
313312	Textile & fabric finishing mills . . . . .	—	26	18	3 395	73 456	2 941	5 649	56 579	147 346	202 493	350 701	8 506
31332	Fabric coating mills . . . . .	—	8	4	238	7 259	189	381	5 199	23 832	42 908	64 696	883
313320	Fabric coating mills . . . . .	—	8	4	238	7 259	189	381	5 199	23 832	42 908	64 696	883



**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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
314	Textile product mills.....	-	522	236	49 696	1 202 395	38 944	84 267	836 803	4 164 147	6 315 679	10 414 525	187 839
3141	Textile furnishings mills....	-	359	160	39 362	961 520	30 410	66 457	670 869	3 608 827	5 485 082	9 032 013	149 891
31411	Carpet & rug mills.....	-	251	120	33 623	860 010	25 908	58 452	605 826	3 186 656	5 153 189	8 282 605	139 818
314110	Carpet & rug mills.....	-	251	120	33 623	860 010	25 908	58 452	605 826	3 186 656	5 153 189	8 282 605	139 818
31412	Curtain & linen mills.....	-	108	40	5 739	101 510	4 502	8 005	65 043	422 171	331 893	749 408	10 073
314121	Curtain & drapery mills.....	1	61	11	1 736	27 414	1 118	1 911	13 565	50 858	39 954	89 272	1 440
314129	Other household textile product mills.....	-	47	29	4 003	74 096	3 384	6 094	51 478	371 313	291 939	660 136	8 633
3149	Other textile product mills..	1	163	76	10 334	240 875	8 534	17 810	165 934	555 320	830 597	1 382 512	37 948
31491	Textile bag & canvas mills.....	2	52	17	1 855	39 124	1 517	3 165	26 140	46 816	67 260	115 461	2 437
314911	Textile bag mills.....	1	18	10	1 368	27 242	1 174	2 494	19 723	28 042	50 013	78 436	1 527
314912	Canvas & related product mills.....	5	34	7	487	11 882	343	671	6 417	18 774	17 247	37 025	910
31499	All other textile product mills.....	1	111	59	8 479	201 751	7 017	14 645	139 794	508 504	763 337	1 267 051	35 511
314991	Rope, cordage, & twine mills.....	-	11	5	462	9 738	424	912	8 688	34 165	43 140	64 549	598
314992	Tire cord & tire fabric mills.....	-	3	3	1 614	42 427	1 415	2 965	34 749	90 674	194 221	288 320	7 286
314999	All other miscellaneous textile product mills..	1	97	51	6 403	149 586	5 178	10 768	96 357	383 665	525 976	914 182	27 627
315	Apparel mfg.....	1	344	194	32 536	504 505	26 734	47 901	372 592	1 550 903	1 731 540	3 225 557	34 847
3151	Apparel knitting mills.....	-	29	18	2 468	41 982	2 119	3 734	29 883	98 924	113 907	213 720	9 408
31511	Hosiery & sock mills.....	-	18	11	1 402	28 044	1 134	2 322	18 343	40 593	79 287	120 741	4 369
315111	Sheer hosiery mills.....	-	5	2	c	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills.....	-	13	9	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills.....	1	11	7	1 066	13 938	985	1 412	11 540	58 331	34 620	92 979	5 039
315191	Outerwear knitting mills.....	9	8	4	e	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills.....	-	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg.....	1	259	162	28 911	445 247	23 617	42 429	329 630	1 420 470	1 592 450	2 955 197	23 943
31521	Cut & sew apparel contractors.....	2	108	58	7 682	99 607	6 305	10 618	76 274	165 269	38 668	203 092	3 940
315211	Men's & boys' cut & sew apparel contractors.....	1	35	32	4 964	65 661	4 098	6 699	50 525	110 650	21 884	132 219	2 425
315212	Women's, girls', & infants' cut & sew apparel contractors..	2	73	26	2 718	33 946	2 207	3 919	25 749	54 619	16 784	70 873	1 515
31522	Men's & boys' cut & sew apparel mfg.....	1	76	57	12 279	198 654	10 343	19 105	146 963	671 911	843 688	1 465 620	12 379
315221	Men's & boys' cut & sew underwear & nightwear mfg.....	-	7	6	1 606	19 629	1 468	2 537	16 855	96 393	66 813	169 760	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	7	10	9	1 563	31 194	1 286	1 628	21 415	95 165	146 452	234 343	530
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	-	21	17	2 544	49 653	2 197	4 944	36 048	180 402	408 626	550 978	3 533
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	1	20	13	3 171	49 736	2 787	5 285	43 196	166 341	110 789	276 360	4 528
315225	Men's & boys' cut & sew work clothing mfg.....	4	4	4	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg.....	-	14	8	g	D	D	D	D	D	D	D	1 888
31523	Women's & girls' cut & sew apparel mfg.....	2	59	40	7 311	122 690	5 668	10 284	88 093	493 905	629 388	1 123 148	6 879
315231	Women's & girls' cut/ sew lingerie & nightwear mfg.....	-	14	13	4 333	68 215	3 584	6 928	51 897	268 105	328 498	605 332	4 648
315232	Women's & girls' cut & sew blouse & shirt mfg.....	7	7	6	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg.....	8	8	6	609	13 229	403	674	8 078	97 158	109 511	200 475	473
315239	Women's & girls' cut & sew other outerwear mfg.....	-	28	15	1 766	34 422	1 291	2 050	23 523	110 608	186 218	294 337	1 698
31529	Other cut & sew apparel mfg.....	1	16	7	1 639	24 296	1 301	2 422	18 300	89 385	80 706	163 337	745
315291	Infants' cut & sew apparel mfg.....	-	7	6	1 564	23 149	1 243	2 335	17 510	87 485	79 102	159 836	706

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<b>31-33</b>	<b>GEORGIA—Con.</b>												
	<b>Manufacturing—Con.</b>												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg . . . . .	1	56	14	1 157	17 276	998	1 738	13 079	31 509	25 183	56 640	1 496
31599	Apparel accessories & other apparel mfg . . . . .	1	56	14	1 157	17 276	998	1 738	13 079	31 509	25 183	56 640	1 496
315991	Hat, cap, & millinery mfg . . . . .	1	11	7	656	9 406	578	1 062	7 375	13 181	9 168	22 250	D
315992	Glove & mitten mfg . . . . .	—	4	3	142	1 578	134	218	1 389	3 518	2 846	6 413	D
315999	Other apparel accessories & other apparel mfg . . . . .	2	41	4	359	6 292	286	458	4 315	14 810	13 169	27 977	1 071
316	Leather & allied product mfg . . . . .	2	26	4	461	6 767	326	610	4 960	18 942	21 729	41 227	635
3162	Footwear mfg . . . . .	1	6	2	324	4 268	216	418	3 208	13 295	17 071	30 973	D
31621	Footwear mfg . . . . .	1	6	2	324	4 268	216	418	3 208	13 295	17 071	30 973	D
316211	Rubber & plastics footwear mfg . . . . .	2	2	1	c	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	—	555	222	28 083	691 313	23 236	47 160	502 548	1 745 709	3 445 975	5 174 866	148 881
3211	Sawmills & wood preservation . . . . .	—	148	69	7 094	182 942	5 660	12 739	132 517	542 887	1 430 958	1 963 567	62 788
32111	Sawmills & wood preservation . . . . .	—	148	69	7 094	182 942	5 660	12 739	132 517	542 887	1 430 958	1 963 567	62 788
321113	Sawmills . . . . .	—	128	61	6 611	169 368	5 345	12 130	126 296	508 512	1 234 006	1 736 531	55 666
321114	Wood preservation . . . . .	1	20	8	483	13 574	315	609	6 221	34 375	196 952	227 036	7 122
3212	Veneer, plywood, & engineered wood product mfg . . . . .	—	76	42	5 231	148 801	4 415	9 487	114 078	324 425	663 297	988 584	39 858
32121	Veneer, plywood, & engineered wood product mfg . . . . .	—	76	42	5 231	148 801	4 415	9 487	114 078	324 425	663 297	988 584	39 858
321211	Hardwood veneer & plywood mfg . . . . .	—	10	6	f	D	D	D	D	D	D	D	1 443
321212	Softwood veneer & plywood mfg . . . . .	—	6	5	1 562	51 533	1 414	3 190	43 741	102 847	218 203	322 134	D
321213	Engineered wood member (except truss) mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
321214	Truss mfg . . . . .	1	45	18	1 175	26 647	937	1 820	16 993	51 318	87 230	138 161	3 297
321219	Reconstituted wood product mfg . . . . .	—	12	10	1 243	38 780	995	2 167	28 156	107 951	175 243	284 889	22 732
3219	Other wood product mfg . . . . .	1	331	111	15 758	359 570	13 161	24 934	255 953	878 397	1 351 720	2 222 715	46 235
32191	Millwork . . . . .	1	137	47	4 365	97 284	3 535	6 910	68 767	277 516	420 244	692 912	14 690
321911	Wood window & door mfg . . . . .	—	42	14	1 741	37 290	1 360	2 721	26 014	151 351	143 779	289 877	3 714
321912	Cut stock, resawing lumber, & planing . . . . .	1	36	10	799	15 673	699	1 253	12 328	38 775	148 174	187 422	4 956
321918	Other millwork (including flooring) . . . . .	1	59	23	1 825	44 321	1 476	2 936	30 425	87 390	128 291	215 613	6 020
32192	Wood container & pallet mfg . . . . .	2	105	21	2 044	36 448	1 786	3 599	26 473	71 986	83 897	155 840	7 421
321920	Wood container & pallet mfg . . . . .	2	105	21	2 044	36 448	1 786	3 599	26 473	71 986	83 897	155 840	7 421
32199	All other wood product mfg . . . . .	—	89	43	9 349	225 838	7 840	14 425	160 713	528 895	847 579	1 373 963	24 124
321991	Manufactured home (mobile home) mfg . . . . .	—	26	24	8 170	202 985	6 942	12 833	145 318	477 381	786 372	1 261 760	21 456
321992	Prefabricated wood building mfg . . . . .	2	15	6	419	9 928	294	571	5 898	21 063	29 222	49 414	1 038
321999	All other miscellaneous wood product mfg . . . . .	1	48	13	760	12 925	604	1 021	9 497	30 451	31 985	62 789	1 630
322	Paper mfg . . . . .	—	211	156	27 044	1 072 220	21 138	45 827	761 106	4 117 975	4 886 558	8 970 553	692 402
3221	Pulp, paper, & paperboard mills . . . . .	—	25	25	11 857	585 465	9 228	20 527	418 415	2 212 378	2 495 146	4 695 717	507 840
32211	Pulp mills . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
322110	Pulp mills . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	—	8	8	h	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	—	6	6	h	D	D	D	D	D	D	D	D
322122	Newsprint mills . . . . .	—	2	2	f	D	D	D	D	D	D	D	216 079
32213	Paperboard mills . . . . .	—	14	14	6 811	353 034	5 180	12 003	245 868	1 135 609	1 500 793	2 627 264	220 398
322130	Paperboard mills . . . . .	—	14	14	6 811	353 034	5 180	12 003	245 868	1 135 609	1 500 793	2 627 264	220 398
3222	Converted paper product mfg . . . . .	—	186	131	15 187	486 755	11 910	25 300	342 691	1 905 597	2 391 412	4 274 836	184 562
32221	Paperboard container mfg . . . . .	—	111	85	8 109	262 551	6 109	13 323	171 694	675 227	1 129 881	1 794 830	76 320
322211	Corrugated & solid fiber box mfg . . . . .	—	70	54	4 725	160 164	3 392	7 430	99 417	399 781	685 830	1 082 740	29 621
322212	Folding paperboard box mfg . . . . .	—	19	16	2 298	69 335	1 796	4 156	48 081	197 101	291 642	480 707	43 070
322214	Fiber can, tube, drum, & similar products mfg . . . . .	—	18	11	727	22 859	609	1 193	16 881	58 429	102 112	160 530	2 643
322215	Nonfolding sanitary food container mfg . . . . .	—	2	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>31-33</b>	<b>GEORGIA—Con.</b>												
	<b>Manufacturing—Con.</b>												
322	Paper mfg—Con.												
3222	Converted paper product mfg—Con.												
32222	Paper bag & coated & treated paper mfg . . . .	1	27	19	2 260	67 942	1 736	3 701	46 307	259 287	446 895	704 190	17 501
322221	Coated & laminated packaging paper & plastics film mfg . . . .	—	2	1	c	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg . . . . .	1	16	9	790	25 137	526	1 085	16 126	162 236	201 492	366 032	11 324
322224	Uncoated paper & multiwall bag mfg . . . .	—	3	3	897	22 558	778	1 657	16 966	36 649	92 889	128 636	1 872
322225	Laminated aluminum foil mfg for flexible packaging uses . . . . .	2	4	4	305	11 963	221	542	7 954	34 030	56 072	86 181	3 012
32223	Stationery product mfg . . . . .	—	22	10	1 424	41 616	1 172	2 450	29 839	179 752	147 092	320 734	9 019
322231	Die-cut paper & paperboard office supplies mfg . . . . .	—	8	2	e	D	D	D	D	D	D	D	D
322232	Envelope mfg . . . . .	—	10	6	764	22 946	615	1 259	16 250	71 573	68 525	137 280	4 565
322233	Stationery, tablet, & related product mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	—	26	17	3 394	114 646	2 893	5 826	94 851	791 331	667 544	1 455 082	81 722
322291	Sanitary paper product mfg . . . . .	—	7	6	2 279	82 373	2 008	3 918	70 664	583 868	558 122	1 137 242	76 470
322299	All other converted paper product mfg . . . . .	1	19	11	1 115	32 273	885	1 908	24 187	207 463	109 422	317 840	5 252
323	Printing & related support activities . . . . .	2	1 206	227	22 159	679 277	15 774	29 969	413 700	1 597 636	1 091 816	2 688 649	114 320
3231	Printing & related support activities . . . . .	2	1 206	227	22 159	679 277	15 774	29 969	413 700	1 597 636	1 091 816	2 688 649	114 320
32311	Printing . . . . .	2	1 064	184	19 297	598 744	13 644	26 030	363 565	1 430 829	1 047 672	2 477 531	105 609
323110	Commercial lithographic printing . . . . .	2	529	102	11 135	365 322	7 825	15 356	224 273	788 287	557 677	1 345 296	58 896
323111	Commercial gravure printing . . . . .	3	15	6	1 793	62 510	1 314	2 359	36 959	187 616	130 689	318 774	15 064
323112	Commercial flexographic printing . . . . .	—	26	10	758	26 094	511	1 139	14 879	80 377	93 445	173 936	6 403
323113	Commercial screen printing . . . . .	1	111	17	1 247	30 743	795	1 372	14 018	65 303	57 352	124 357	6 920
323114	Quick printing . . . . .	2	224	10	1 241	31 582	849	1 442	18 773	65 487	37 043	102 218	4 725
323116	Manifold business form printing . . . . .	3	32	20	1 877	47 781	1 458	2 751	33 529	175 568	124 480	298 026	8 886
323117	Book printing . . . . .	2	18	6	398	11 450	299	569	7 982	21 024	15 426	36 372	701
323118	Blankbook, looseleaf binder, & device mfg . . . . .	1	10	2	105	2 742	85	167	1 482	6 089	3 084	9 162	84
323119	Other commercial printing . . . . .	5	93	11	703	19 423	477	821	11 033	38 355	27 193	65 382	3 760
32312	Support activities for printing . . . . .	1	142	43	2 862	80 533	2 130	3 939	50 135	166 807	44 144	211 118	8 711
323121	Tradebinding & related work . . . . .	1	59	23	1 426	27 499	1 181	2 170	19 956	49 713	16 943	66 651	1 728
323122	Prepress services . . . . .	1	83	20	1 436	53 034	949	1 769	30 179	117 094	27 201	144 467	6 983
324	Petroleum & coal products mfg . . . . .	2	56	14	1 073	40 670	845	1 878	29 356	218 708	444 865	664 788	31 688
3241	Petroleum & coal products mfg . . . . .	2	56	14	1 073	40 670	845	1 878	29 356	218 708	444 865	664 788	31 688
32412	Asphalt paving, roofing, & saturated materials mfg . . . . .	—	42	8	819	30 944	676	1 563	23 414	134 994	250 802	387 181	24 990
324121	Asphalt paving mixture & block mfg . . . . .	2	32	1	217	8 115	185	429	6 158	38 210	94 723	133 192	6 225
324122	Asphalt shingle & coating materials mfg . . . . .	—	10	7	602	22 829	491	1 134	17 256	96 784	156 079	253 989	18 765
32419	Other petroleum & coal products mfg . . . . .	6	12	4	c	D	D	D	D	D	D	D	D
324191	Petroleum lubricating oil & grease mfg . . . . .	5	11	4	162	5 271	111	194	3 243	30 515	54 643	84 950	957
325	Chemical mfg . . . . .	—	481	226	23 567	877 149	14 497	30 307	455 894	5 541 057	5 663 931	11 189 433	453 551
3251	Basic chemical mfg . . . . .	—	87	37	4 391	190 324	2 706	5 817	109 180	1 089 821	1 000 058	2 118 646	85 593
32512	Industrial gas mfg . . . . .	—	20	4	c	D	D	D	D	D	D	D	D
325120	Industrial gas mfg . . . . .	—	20	4	c	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg . . . . .	—	8	4	908	35 676	532	1 245	19 180	130 233	199 287	345 042	15 130
325131	Inorganic dye & pigment mfg . . . . .	—	4	4	863	33 516	512	1 204	18 545	122 649	178 171	316 606	D
32518	Other basic inorganic chemical mfg . . . . .	—	31	14	1 066	50 335	731	1 531	30 758	320 466	284 031	607 321	28 151
325181	Alkalies & chlorine mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg . . . . .	—	29	13	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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3251	Basic chemical mfg—Con.												
32519	Other basic organic chemical mfg .....	-	26	15	2 194	96 899	1 309	2 766	55 058	594 801	500 567	1 105 660	38 988
325191	Gum & wood chemical mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	-	23	12	1 705	72 263	1 014	1 959	40 729	528 272	436 014	976 672	31 230
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	1	40	32	4 708	150 302	3 591	7 776	103 328	617 692	905 479	1 518 823	65 561
32521	Resin & synthetic rubber mfg .....	-	25	21	1 639	60 187	1 060	2 159	35 028	375 713	567 784	940 284	40 982
325211	Plastics material & resin mfg .....	-	22	19	g	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg ..	-	3	2	c	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	2	15	11	3 069	90 115	2 531	5 617	68 300	241 979	337 695	578 539	24 579
325222	Noncellulosic organic fiber mfg .....	2	15	11	3 069	90 115	2 531	5 617	68 300	241 979	337 695	578 539	24 579
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	-	39	20	1 537	53 910	966	1 905	22 830	394 705	382 226	767 113	34 092
32531	Fertilizer mfg .....	1	23	10	637	18 694	439	906	11 353	123 845	183 088	300 758	16 185
325311	Nitrogenous fertilizer mfg .....	-	6	3	c	D	D	D	D	D	D	D	D
325312	Phosphatic fertilizer mfg .....	-	2	2	c	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg .....	3	15	5	277	6 565	209	420	4 177	24 861	51 873	75 452	3 636
32532	Pesticide & other agricultural chemical mfg .....	-	16	10	900	35 216	527	999	11 477	270 860	199 138	466 355	17 907
325320	Pesticide & other agricultural chemical mfg .....	-	16	10	900	35 216	527	999	11 477	270 860	199 138	466 355	17 907
3254	Pharmaceutical & medicine mfg .....	-	37	16	2 380	102 305	1 147	2 350	44 594	839 014	1 054 590	1 881 083	142 494
32541	Pharmaceutical & medicine mfg .....	-	37	16	2 380	102 305	1 147	2 350	44 594	839 014	1 054 590	1 881 083	142 494
325411	Medicinal & botanical mfg .....	-	7	4	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	14	6	585	29 710	336	672	14 587	161 265	60 269	223 377	26 787
325413	In-vitro diagnostic substance mfg .....	-	8	4	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg .....	1	8	2	e	D	D	D	D	D	D	D	3 737
3255	Paint, coating, & adhesive mfg .....	1	92	37	2 359	87 336	1 320	2 552	37 432	534 418	612 727	1 143 151	25 460
32551	Paint & coating mfg .....	-	51	19	1 316	45 547	730	1 354	19 779	347 962	361 199	706 400	12 926
325510	Paint & coating mfg .....	-	51	19	1 316	45 547	730	1 354	19 779	347 962	361 199	706 400	12 926
32552	Adhesive mfg .....	1	41	18	1 043	41 789	590	1 198	17 653	186 456	251 528	436 751	12 534
325520	Adhesive mfg .....	1	41	18	1 043	41 789	590	1 198	17 653	186 456	251 528	436 751	12 534
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	94	40	4 566	162 828	2 656	5 403	76 058	1 463 768	910 166	2 371 345	59 720
32561	Soap & cleaning compound mfg .....	-	73	28	3 266	124 453	1 779	3 885	57 631	1 274 039	813 086	2 085 517	40 693
325611	Soap & other detergent mfg .....	-	33	13	1 567	70 265	869	1 841	33 511	853 361	496 567	1 346 865	25 842
325612	Polish & other sanitation good mfg ..	-	29	10	1 313	39 933	724	1 636	18 683	347 235	226 500	575 940	9 714
325613	Surface active agent mfg .....	-	11	5	386	14 255	186	408	5 437	73 443	90 019	162 712	5 137
32562	Toilet preparation mfg ...	3	21	12	1 300	38 375	877	1 518	18 427	189 729	97 080	285 828	19 027
325620	Toilet preparation mfg .	3	21	12	1 300	38 375	877	1 518	18 427	189 729	97 080	285 828	19 027
3259	Other chemical product mfg .....	1	92	44	3 626	130 144	2 111	4 504	62 472	601 639	798 685	1 389 272	40 631
32591	Printing ink mfg .....	3	23	12	e	D	D	D	D	D	D	D	D
325910	Printing ink mfg .....	3	23	12	e	D	D	D	D	D	D	D	D
32592	Explosives mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
325920	Explosives mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	-	68	31	3 043	109 998	1 753	3 760	52 706	544 057	713 849	1 247 920	38 489
325991	Custom compounding of purchased resin ...	-	18	11	1 077	39 505	584	1 224	18 677	140 192	244 287	377 942	15 528
325992	Photographic film, paper, plate, & chemical mfg .....	1	10	4	265	8 165	132	263	2 818	23 758	21 442	45 187	1 398
325998	All other miscellaneous chemical product & preparation mfg .....	1	40	16	1 701	62 328	1 037	2 273	31 211	380 107	448 120	824 791	21 563

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

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	-	432	245	26 866	742 812	21 677	44 907	518 308	2 365 387	2 590 850	4 938 476	233 558
3261	Plastics product mfg .....	-	336	195	20 284	548 981	16 306	33 037	374 782	1 778 360	1 905 265	3 667 958	194 409
32611	Unsupported plastics film, sheet, & bag mfg ..	-	52	40	4 584	146 345	3 572	7 754	101 549	578 078	645 245	1 215 906	60 757
326111	Unsupported plastics bag mfg .....	-	14	12	1 616	48 469	1 328	2 700	35 203	179 482	166 083	347 480	10 303
326112	Unsupported plastics packaging film & sheet mfg .....	-	6	5	801	28 409	628	1 433	20 749	93 987	130 850	223 145	7 375
326113	Unsupported plastics film & sheet (except packaging) mfg .....	-	32	23	2 167	69 467	1 616	3 621	45 597	304 609	348 312	645 281	43 079
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	-	36	18	1 198	36 020	869	1 745	20 118	129 259	167 286	292 481	15 627
326121	Unsupported plastics profile shape mfg .....	3	19	8	487	14 098	314	638	6 955	29 952	23 777	53 228	5 273
326122	Plastics pipe & pipe fitting mfg .....	-	17	10	711	21 922	555	1 107	13 163	99 307	143 509	239 253	10 354
32614	Polystyrene foam product mfg .....	-	23	13	2 056	60 276	1 652	3 625	43 782	247 418	216 002	464 864	28 575
326140	Polystyrene foam product mfg .....	-	23	13	2 056	60 276	1 652	3 625	43 782	247 418	216 002	464 864	28 575
32615	Urethane & other foam product (except polystyrene) mfg .....	1	15	10	753	21 141	604	1 193	13 484	47 775	77 239	125 070	3 937
326150	Urethane & other foam product (except polystyrene) mfg .....	1	15	10	753	21 141	604	1 193	13 484	47 775	77 239	125 070	3 937
32616	Plastics bottle mfg .....	-	21	14	1 374	37 108	1 227	2 507	29 752	104 444	107 256	211 158	23 075
326160	Plastics bottle mfg .....	-	21	14	1 374	37 108	1 227	2 507	29 752	104 444	107 256	211 158	23 075
32619	Other plastics product mfg .....	1	181	99	10 251	246 256	8 327	16 119	164 734	666 376	688 836	1 350 051	62 197
326191	Plastics plumbing fixture mfg .....	3	27	14	1 311	30 553	1 057	2 032	21 426	75 392	50 588	126 527	2 639
326199	All other plastics product mfg .....	-	154	85	8 940	215 703	7 270	14 087	143 308	590 984	638 248	1 223 524	59 558
3262	Rubber product mfg .....	-	96	50	6 582	193 831	5 371	11 870	143 526	587 027	685 585	1 270 518	39 149
32621	Tire mfg .....	-	35	9	2 045	70 008	1 776	4 445	59 164	254 000	257 029	507 764	D
326211	Tire mfg (except retreading) .....	-	7	4	1 812	63 952	1 609	4 098	55 361	241 750	241 916	480 391	17 800
326212	Tire retreading .....	1	28	5	233	6 056	167	347	3 803	12 250	15 113	27 375	D
32622	Rubber & plastics hoses & belting mfg .....	-	9	4	631	19 628	450	950	11 760	32 216	65 845	99 885	D
326220	Rubber & plastics hoses & belting mfg ..	-	9	4	631	19 628	450	950	11 760	32 216	65 845	99 885	D
32629	Other rubber product mfg .....	-	52	37	3 906	104 195	3 145	6 475	72 602	300 811	362 711	662 869	17 122
326291	Rubber product mfg for mechanical use .....	-	16	11	1 570	38 229	1 321	2 623	29 203	112 100	75 939	188 001	8 792
326299	All other rubber product mfg .....	-	36	26	2 336	65 966	1 824	3 852	43 399	188 711	286 772	474 868	8 330
327	Nonmetallic mineral product mfg .....	1	599	200	18 207	586 286	13 820	28 773	401 981	1 976 690	1 588 828	3 574 225	181 304
3271	Clay product & refractory mfg .....	-	46	18	3 183	89 982	2 372	4 786	59 863	268 658	151 226	424 202	16 313
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	26	7	913	26 205	762	1 606	21 223	78 360	41 692	117 633	3 300
327111	Vitreous china plumbing fixture & bathroom accessories mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	1	20	3	176	3 414	133	235	2 034	13 860	5 924	18 421	1 555
327113	Porcelain electrical supply mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	20	11	2 270	63 777	1 610	3 180	38 640	190 298	109 534	306 569	13 013
327121	Brick & structural clay tile mfg .....	1	7	5	885	19 937	629	1 260	11 943	66 653	39 853	108 656	4 022
327122	Ceramic wall & floor tile mfg .....	-	4	2	e	D	D	D	D	D	D	D	D
327124	Clay refractory mfg .....	-	3	1	c	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg .....	-	6	3	956	32 066	617	1 216	17 102	75 907	48 274	125 708	7 130
3272	Glass & glass product mfg ..	-	46	15	2 028	69 920	1 636	3 264	52 155	192 889	225 342	422 416	37 755
32721	Glass & glass product mfg .....	-	46	15	2 028	69 920	1 636	3 264	52 155	192 889	225 342	422 416	37 755
327211	Flat glass mfg .....	-	1	1	c	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	3	3	816	35 233	720	1 470	29 940	101 153	98 518	204 016	11 394
327215	Glass product mfg made of purchased glass .....	-	37	11	g	D	D	D	D	D	D	D	D



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

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

NAICS code	Geographic area and industry	E <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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg .....	1	328	101	6 454	195 597	4 953	10 450	134 578	618 074	611 505	1 232 178	44 766
32731	Cement mfg .....	—	7	2	283	14 265	217	517	9 498	81 815	38 179	121 564	7 339
327310	Cement mfg .....	—	7	2	283	14 265	217	517	9 498	81 815	38 179	121 564	7 339
32732	Ready-mix concrete mfg .....	1	186	57	3 226	101 912	2 666	5 592	75 481	292 236	395 685	688 636	22 203
327320	Ready-mix concrete mfg .....	1	186	57	3 226	101 912	2 666	5 592	75 481	292 236	395 685	688 636	22 203
32733	Concrete pipe, brick, & block mfg .....	2	47	12	708	19 856	464	1 083	12 444	69 977	58 881	129 873	5 937
327331	Concrete block & brick mfg .....	2	36	5	469	12 996	289	655	7 923	51 920	46 080	97 634	3 972
327332	Concrete pipe mfg .....	2	11	7	239	6 860	175	428	4 521	18 057	12 801	32 239	1 965
32739	Other concrete product mfg .....	1	88	30	2 237	59 564	1 606	3 258	37 155	174 046	118 760	292 105	9 287
327390	Other concrete product mfg .....	1	88	30	2 237	59 564	1 606	3 258	37 155	174 046	118 760	292 105	9 287
3274	Lime & gypsum product mfg .....	—	16	10	808	28 161	656	1 540	21 605	150 133	180 218	330 475	8 738
32742	Gypsum product mfg .....	—	16	10	808	28 161	656	1 540	21 605	150 133	180 218	330 475	8 738
327420	Gypsum product mfg .....	—	16	10	808	28 161	656	1 540	21 605	150 133	180 218	330 475	8 738
3279	Other nonmetallic mineral product mfg .....	1	163	56	5 734	202 626	4 203	8 733	133 780	746 936	420 537	1 164 954	73 732
32791	Abrasive product mfg .....	2	5	4	299	11 202	171	326	4 177	34 840	33 777	67 407	867
327910	Abrasive product mfg .....	2	5	4	299	11 202	171	326	4 177	34 840	33 777	67 407	867
32799	All other nonmetallic mineral product mfg .....	1	158	52	5 435	191 424	4 032	8 407	129 603	712 096	386 760	1 097 547	72 865
327991	Cut stone & stone product mfg .....	4	115	28	1 613	39 515	1 265	2 578	28 834	79 650	50 965	130 123	5 683
327992	Ground or treated mineral & earth mfg ..	—	10	7	1 496	62 004	901	2 009	30 947	351 783	114 045	465 678	42 518
327993	Mineral wool mfg .....	—	14	8	1 717	75 894	1 415	2 978	60 957	240 707	188 021	428 868	17 890
327999	All other miscellaneous nonmetallic mineral product mfg .....	—	19	9	609	14 011	451	842	8 865	39 956	33 729	72 878	6 774
331	Primary metal mfg .....	—	73	44	6 716	218 650	5 376	11 536	151 245	595 660	1 486 972	2 079 926	58 074
3311	Iron & steel mills & ferroalloy mfg .....	—	3	3	f	D	D	D	D	D	D	D	3 528
33111	Iron & steel mills & ferroalloy mfg .....	—	3	3	f	D	D	D	D	D	D	D	3 528
331111	Iron & steel mills .....	—	3	3	f	D	D	D	D	D	D	D	3 528
3312	Steel product mfg from purchased steel .....	—	14	11	g	D	D	D	D	D	D	D	9 771
33121	Iron & steel pipes & tubes mfg from purchased steel .....	2	6	4	c	D	D	D	D	D	D	D	1 647
331210	Iron & steel pipes & tubes mfg from purchased steel .....	2	6	4	c	D	D	D	D	D	D	D	1 647
33122	Rolling & drawing of purchased steel .....	—	8	7	798	26 598	569	870	11 673	93 444	111 211	206 851	8 124
331222	Steel wire drawing .....	—	5	4	709	24 079	500	753	9 793	84 911	83 557	170 114	7 484
3313	Alumina & aluminum production & processing ..	—	12	10	2 170	66 705	1 715	3 829	45 159	163 356	450 580	614 323	14 761
33131	Alumina & aluminum production & processing .....	—	12	10	2 170	66 705	1 715	3 829	45 159	163 356	450 580	614 323	14 761
331314	Secondary smelting & alloying of aluminum ..	—	2	2	c	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg .....	—	6	6	1 671	51 436	1 296	2 923	34 022	117 206	181 046	298 434	7 453
331319	Other aluminum rolling & drawing .....	—	3	2	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing .....	—	12	7	816	27 198	637	1 397	20 186	77 480	576 504	655 416	16 958
33142	Copper rolling, drawing, extruding, & alloying ...	—	3	3	e	D	D	D	D	D	D	D	10 713
331421	Copper rolling, drawing, & extruding ..	—	2	2	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	1	9	4	e	D	D	D	D	D	D	D	6 245
331491	Other nonferrous metal rolling, drawing, & extruding .....	1	5	3	c	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	1	4	1	c	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
331	Primary metal mfg—Con.												
3315	Foundries .....	—	32	13	1 949	57 823	1 669	3 744	44 196	174 669	126 438	300 584	13 056
33151	Ferrous metal foundries .....	—	17	7	1 336	38 865	1 154	2 660	29 328	133 273	88 658	220 804	7 791
331511	Iron foundries .....	—	17	7	1 336	38 865	1 154	2 660	29 328	133 273	88 658	220 804	7 791
33152	Nonferrous metal foundries .....	—	15	6	613	18 958	515	1 084	14 868	41 396	37 780	79 780	5 265
331521	Aluminum die-casting foundries .....	—	6	4	516	16 680	440	953	13 352	35 713	35 998	72 230	5 005
332	Fabricated metal product mfg .....	—	1 114	338	31 987	916 655	24 623	48 774	602 044	2 271 184	2 503 696	4 784 000	196 813
3321	Forging & stamping .....	—	38	19	1 614	47 645	1 238	2 461	30 016	116 012	120 627	237 046	5 660
33211	Forging & stamping .....	—	38	19	1 614	47 645	1 238	2 461	30 016	116 012	120 627	237 046	5 660
332114	Custom roll forming ....	—	7	4	e	D	D	D	D	D	D	D	D
332116	Metal stamping .....	—	29	15	1 231	37 681	1 005	1 979	24 684	85 653	69 707	156 637	3 459
3322	Cutlery & handtool mfg ....	1	34	16	1 632	46 192	1 196	2 200	27 279	133 697	87 932	220 358	5 165
33221	Cutlery & handtool mfg ..	1	34	16	1 632	46 192	1 196	2 200	27 279	133 697	87 932	220 358	5 165
332211	Cutlery & flatware (except precious) mfg .....	—	4	1	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg .	3	23	10	741	19 670	539	850	10 700	44 632	34 563	78 968	2 362
332213	Saw blade & handsaw mfg .....	1	6	4	f	D	D	D	D	D	D	D	1 989
3323	Architectural & structural metals mfg .....	1	331	140	10 798	292 827	8 044	16 092	182 558	696 801	955 584	1 649 205	41 293
33231	Plate work & fabricated structural product mfg ..	1	129	62	3 809	103 377	2 853	5 701	65 117	239 881	369 096	607 161	13 580
332311	Prefabricated metal building & component mfg .....	—	39	20	1 326	31 446	1 023	2 129	20 813	71 300	126 329	196 250	2 548
332312	Fabricated structural metal mfg .....	2	77	38	2 339	67 844	1 731	3 372	42 019	158 722	232 743	391 040	10 322
332313	Plate work mfg .....	1	13	4	144	4 087	99	200	2 285	9 859	10 024	19 871	710
33232	Ornamental & architectural metal products mfg .....	—	202	78	6 989	189 450	5 191	10 391	117 441	456 920	586 488	1 042 044	27 713
332321	Metal window & door mfg .....	—	45	28	3 638	91 322	2 704	5 503	58 127	214 040	295 223	508 709	14 929
332322	Sheet metal work mfg .	1	105	41	2 589	77 488	1 965	3 940	47 884	193 210	235 129	427 307	10 161
332323	Ornamental & architectural metal work mfg .....	2	52	9	762	20 640	522	948	11 430	49 670	56 136	106 028	2 623
3324	Boiler, tank, & shipping container mfg .....	—	40	23	3 049	99 714	2 405	5 224	74 190	276 463	498 679	775 709	51 206
33241	Power boiler & heat exchanger mfg .....	3	10	3	228	7 214	160	368	4 373	14 556	13 008	27 618	715
332410	Power boiler & heat exchanger mfg .....	3	10	3	228	7 214	160	368	4 373	14 556	13 008	27 618	715
33242	Metal tank (heavy gauge) mfg .....	—	19	11	1 310	40 395	950	2 090	27 835	91 953	112 010	202 459	6 946
332420	Metal tank (heavy gauge) mfg .....	—	19	11	1 310	40 395	950	2 090	27 835	91 953	112 010	202 459	6 946
33243	Metal can, box, & other metal container (light gauge) mfg .....	—	11	9	1 511	52 105	1 295	2 766	41 982	169 954	373 661	545 632	43 545
332431	Metal can mfg .....	—	6	6	1 356	48 958	1 170	2 592	39 749	162 790	363 072	527 219	43 194
332439	Other metal container mfg .....	5	5	3	155	3 147	125	174	2 233	7 164	10 589	18 413	351
3325	Hardware mfg .....	—	15	9	1 132	31 351	854	1 762	18 972	77 095	103 401	181 107	3 001
33251	Hardware mfg .....	—	15	9	1 132	31 351	854	1 762	18 972	77 095	103 401	181 107	3 001
332510	Hardware mfg .....	—	15	9	1 132	31 351	854	1 762	18 972	77 095	103 401	181 107	3 001
3326	Spring & wire product mfg .	—	30	15	1 267	31 507	1 057	2 056	21 597	83 638	85 114	167 696	4 194
33261	Spring & wire product mfg .....	—	30	15	1 267	31 507	1 057	2 056	21 597	83 638	85 114	167 696	4 194
332612	Spring (light gauge) mfg .....	—	5	5	568	14 710	509	1 001	11 098	34 915	49 307	83 703	D
332618	Other fabricated wire product mfg .....	—	24	10	f	D	D	D	D	D	D	D	2 356
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	458	61	5 139	153 433	3 761	6 483	94 362	310 184	179 294	492 871	23 494
33271	Machine shops .....	2	427	53	4 525	133 691	3 393	5 746	83 460	272 116	161 975	438 426	19 948
332710	Machine shops .....	2	427	53	4 525	133 691	3 393	5 746	83 460	272 116	161 975	438 426	19 948
33272	Turned product & screw, nut, & bolt mfg .....	2	31	8	614	19 742	368	737	10 902	38 068	17 319	54 445	3 546
332721	Precision turned product mfg .....	—	23	5	431	14 052	230	477	7 399	24 440	8 845	32 663	1 679
332722	Bolt, nut, screw, rivet, & washer mfg .....	4	8	3	183	5 690	138	260	3 503	13 628	8 474	21 782	1 867

**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>GEORGIA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities .	2	55	18	1 357	36 695	1 092	2 173	23 860	81 121	53 156	134 799	6 275
33281	Coating, engraving, heat treating, & allied activities . . . . .	2	55	18	1 357	36 695	1 092	2 173	23 860	81 121	53 156	134 799	6 275
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	1	21	8	499	16 520	375	778	8 939	42 050	33 204	75 916	3 475
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	3	29	9	793	18 458	666	1 296	13 614	34 419	18 220	52 507	2 539
3329	Other fabricated metal product mfg . . . . .	—	113	37	5 999	177 291	4 976	10 323	129 210	496 173	419 909	925 209	56 525
33291	Metal valve mfg . . . . .	—	16	9	1 463	45 497	1 143	2 545	28 997	110 403	75 672	185 780	7 720
332912	Fluid power valve & hose fitting mfg . . . . .	—	8	4	560	16 215	404	933	8 584	34 156	35 665	67 083	2 989
332919	Other metal valve & pipe fitting mfg . . . . .	—	6	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg . . . . .	—	97	28	4 536	131 794	3 833	7 778	100 213	385 770	344 237	739 429	48 805
332991	Ball & roller bearing mfg . . . . .	—	11	7	2 661	80 173	2 307	4 649	62 978	252 214	158 795	418 612	38 674
332996	Fabricated pipe & pipe fitting mfg . . . . .	—	16	2	560	14 258	476	967	11 039	37 447	45 891	83 876	2 331
332999	All other miscellaneous fabricated metal product mfg . . . . .	1	51	18	1 192	34 093	963	2 007	24 010	87 358	136 116	224 781	7 374
333	Machinery mfg . . . . .	—	555	217	26 960	817 337	18 887	37 747	478 989	2 608 689	3 299 327	5 807 664	166 755
3331	Agriculture, construction, & mining machinery mfg . . . . .	—	76	40	4 565	119 620	3 348	6 434	73 144	685 304	1 094 156	1 711 445	37 741
33311	Agricultural implement mfg . . . . .	—	54	30	3 564	90 057	2 724	5 419	53 311	583 109	829 379	1 347 428	26 549
333111	Farm machinery & equipment mfg . . . . .	—	48	26	g	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	6	4	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg . . . . .	—	16	8	895	24 958	561	890	17 810	97 134	259 679	351 884	D
333120	Construction machinery mfg . . . . .	—	16	8	895	24 958	561	890	17 810	97 134	259 679	351 884	D
33313	Mining & oil & gas field machinery mfg . . . . .	1	6	2	106	4 605	63	125	2 023	5 061	5 098	12 133	D
3332	Industrial machinery mfg . . . . .	1	156	58	4 662	159 435	2 979	5 896	86 567	306 606	329 400	651 053	24 064
33322	Plastics & rubber industry machinery mfg . . . . .	1	7	3	264	8 462	120	236	3 416	17 546	13 549	31 420	492
333220	Plastics & rubber industry machinery mfg . . . . .	1	7	3	264	8 462	120	236	3 416	17 546	13 549	31 420	492
33329	Other industrial machinery mfg . . . . .	1	139	54	4 313	148 443	2 803	5 546	81 529	281 539	309 510	605 860	23 479
333291	Paper industry machinery mfg . . . . .	6	13	5	311	11 244	157	335	5 008	20 653	20 341	40 333	1 556
333292	Textile machinery mfg . . . . .	—	51	19	1 089	33 474	759	1 482	21 586	58 201	51 402	109 833	1 645
333293	Printing machinery & equipment mfg . . . . .	—	14	4	608	22 976	494	1 082	16 398	16 658	73 442	102 058	6 000
333294	Food product machinery mfg . . . . .	—	25	12	979	34 585	598	1 097	17 390	97 418	82 074	181 128	7 850
333298	All other industrial machinery mfg . . . . .	4	36	14	1 326	46 164	795	1 550	21 147	88 609	82 251	172 508	6 428
3333	Commercial & service industry machinery mfg . . . . .	1	46	13	1 111	35 798	677	1 257	17 171	129 226	110 600	243 553	3 494
33331	Commercial & service industry machinery mfg . . . . .	1	46	13	1 111	35 798	677	1 257	17 171	129 226	110 600	243 553	3 494
333313	Office machinery mfg . . . . .	2	3	3	161	6 183	123	219	3 225	13 218	8 727	21 868	564
333314	Optical instrument & lens mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg . . . . .	1	27	7	492	14 841	337	609	8 473	89 857	54 080	144 701	1 663

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	<b>GEORGIA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	44	34	7 065	208 409	5 525	11 444	136 455	568 026	797 716	1 357 596	36 794
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	44	34	7 065	208 409	5 525	11 444	136 455	568 026	797 716	1 357 596	36 794
333411	Air purification equipment mfg .....	-	4	3	161	6 653	64	144	1 836	19 756	26 989	45 157	477
333412	Industrial & commercial fan & blower mfg .....	3	6	3	256	5 480	190	317	3 217	17 284	9 881	27 316	1 009
333414	Heating equipment (except warm air furnaces) mfg .....	3	6	4	496	13 582	313	718	7 599	37 740	38 838	75 346	1 704
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	28	24	6 152	182 694	4 958	10 265	123 803	493 246	722 008	1 209 777	33 604
3335	Metalworking machinery mfg .....	1	100	20	2 008	67 345	1 296	2 614	39 974	140 935	84 002	222 943	8 978
33351	Metalworking machinery mfg .....	1	100	20	2 008	67 345	1 296	2 614	39 974	140 935	84 002	222 943	8 978
333513	Machine tool (metal forming types) mfg...	1	6	4	216	10 113	148	309	5 973	21 449	16 292	37 798	1 086
333514	Special die & tool, die set, jig, & fixture mfg .	3	58	8	664	21 084	549	1 012	16 542	40 843	15 386	55 794	3 316
333515	Cutting tool & machine tool accessory mfg ..	-	21	5	988	31 093	503	1 108	14 378	67 303	45 197	110 855	4 214
3336	Engine, turbine, & power transmission equipment mfg .....	-	12	8	2 058	49 569	1 684	3 217	34 724	183 867	382 587	563 056	25 203
33361	Engine, turbine, & power transmission equipment mfg .....	-	12	8	2 058	49 569	1 684	3 217	34 724	183 867	382 587	563 056	25 203
333612	Speed changer, industrial high-speed drive, & gear mfg ....	1	3	2	c	D	D	D	D	D	D	D	416
333613	Mechanical power transmission equipment mfg .....	-	4	1	c	D	D	D	D	D	D	D	228
333618	Other engine equipment mfg .....	-	5	5	1 800	41 059	1 499	2 796	29 463	165 214	362 784	524 871	24 559
3339	Other general-purpose machinery mfg .....	-	121	44	5 491	177 161	3 378	6 885	90 954	594 725	500 866	1 058 018	30 481
33391	Pump & compressor mfg .....	1	23	9	1 272	37 263	852	1 823	22 894	109 271	88 074	191 771	6 472
333911	Pump & pumping equipment mfg .....	1	17	8	1 102	33 268	713	1 525	20 074	100 592	83 459	177 941	6 332
333912	Air & gas compressor mfg .....	1	5	1	c	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg .....	-	29	14	1 071	37 988	594	1 251	16 787	85 160	107 368	191 630	2 220
333921	Elevator & moving stairway mfg .....	1	3	1	116	3 327	65	136	1 402	4 785	13 322	18 184	461
333922	Conveyor & conveying equipment mfg .....	-	13	7	505	19 830	268	575	8 582	44 781	33 455	77 984	742
333924	Industrial truck, tractor, trailer, & stacker machinery mfg .....	-	9	6	410	13 622	234	486	6 061	32 411	57 945	89 685	969
33399	All other general-purpose machinery mfg .....	-	69	21	3 148	101 910	1 932	3 811	51 273	400 294	305 424	674 617	21 789
333991	Power-driven handtool mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333992	Welding & soldering equipment mfg .....	-	5	2	c	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg .....	-	23	9	1 025	40 282	554	1 069	16 220	162 154	57 687	225 040	3 331
333999	All other miscellaneous general-purpose machinery mfg .....	2	30	6	798	24 954	537	1 154	15 002	86 400	59 472	121 314	3 679
334	Computer & electronic product mfg .....	2	269	102	20 738	740 219	12 981	26 010	335 916	2 243 383	2 566 282	4 790 356	137 559
3341	Computer & peripheral equipment mfg .....	-	39	12	2 628	123 493	1 271	2 482	40 983	374 972	367 798	757 190	16 710
33411	Computer & peripheral equipment mfg .....	-	39	12	2 628	123 493	1 271	2 482	40 983	374 972	367 798	757 190	16 710
334111	Electronic computer mfg .....	-	10	1	e	D	D	D	D	D	D	D	D
334113	Computer terminal mfg .....	-	7	4	683	32 623	365	755	12 361	114 744	176 752	303 900	3 062
334119	Other computer peripheral equipment mfg .....	-	21	7	1 589	74 344	755	1 409	24 370	216 215	177 383	396 669	9 364

**Table 1. Industry Statistics for the State: 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>GEORGIA—Con.</b>												
	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3342	Communications equipment mfg .....	3	60	26	h	D	D	D	D	D	D	D	45 280
33421	Telephone apparatus mfg .....	1	15	6	851	38 395	295	549	5 513	74 040	74 441	149 149	9 034
334210	Telephone apparatus mfg .....	1	15	6	851	38 395	295	549	5 513	74 040	74 441	149 149	9 034
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	3	32	17	3 919	163 773	2 621	6 717	95 584	562 689	577 991	1 104 924	34 613
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	3	32	17	3 919	163 773	2 621	6 717	95 584	562 689	577 991	1 104 924	34 613
33429	Other communications equipment mfg .....	7	13	3	c	D	D	D	D	D	D	D	1 633
334290	Other communications equipment mfg .....	7	13	3	c	D	D	D	D	D	D	D	1 633
3343	Audio & video equipment mfg .....	5	12	4	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg .....	5	12	4	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg .....	5	12	4	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	—	58	24	4 182	120 022	2 985	5 388	52 451	291 008	371 265	674 439	D
33441	Semiconductor & other electronic component mfg .....	—	58	24	4 182	120 022	2 985	5 388	52 451	291 008	371 265	674 439	D
334412	Bare printed circuit board mfg .....	2	21	10	1 392	36 541	1 110	2 008	21 497	77 572	24 416	103 046	5 060
334414	Electronic capacitor mfg .....	—	3	1	c	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	—	8	7	2 033	65 327	1 278	2 053	19 858	172 840	278 491	462 144	7 101
334419	Other electronic component mfg .....	1	15	4	e	D	D	D	D	D	D	D	1 054
3345	Navigational, measuring, medical, & control instruments mfg .....	1	78	28	4 265	147 171	2 586	5 095	64 735	435 617	331 418	778 870	23 756
33451	Navigational, measuring, medical, & control instruments mfg .....	1	78	28	4 265	147 171	2 586	5 095	64 735	435 617	331 418	778 870	23 756
334510	Electromedical & electrotherapeutic apparatus mfg .....	—	5	4	706	30 414	351	697	8 601	107 012	61 629	176 897	D
334511	Search, detection, navigation, & guidance instrument mfg .....	—	8	3	383	21 061	96	182	2 827	43 194	24 597	65 444	2 816
334512	Automatic environmental control mfg .....	2	6	2	129	3 751	88	162	2 264	10 580	6 314	17 789	283
334513	Industrial process control instrument mfg .....	5	19	9	755	23 067	435	834	8 703	88 588	90 117	180 063	5 225
334514	Totalizing fluid meter & counting device mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg .....	—	10	2	437	13 581	312	620	6 333	40 539	34 485	73 052	1 831
334516	Analytical laboratory instrument mfg .....	2	10	2	299	12 207	123	222	9 497	28 864	13 426	43 062	1 325
334518	Watch, clock, & part mfg .....	—	5	2	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg .....	1	9	3	337	11 703	242	487	6 420	18 718	25 237	44 197	995
3346	Mfg & reproducing magnetic & optical media .....	—	22	8	3 185	94 167	2 268	3 860	52 913	337 327	298 983	629 109	20 492
33461	Mfg & reproducing magnetic & optical media .....	—	22	8	3 185	94 167	2 268	3 860	52 913	337 327	298 983	629 109	20 492
334612	Prerecorded CD (except software), tape, & record reproducing .....	4	12	4	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .....	—	8	4	1 827	57 509	1 254	1 883	28 658	252 930	256 296	502 641	14 870



**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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	-	123	66	20 932	697 205	16 063	32 304	455 436	2 518 033	2 685 738	5 156 712	253 958
3351	Electric lighting equipment mfg .....	1	16	8	4 146	107 973	3 213	6 635	70 358	224 126	462 219	677 262	D
33512	Lighting fixture mfg .....	1	16	8	4 146	107 973	3 213	6 635	70 358	224 126	462 219	677 262	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	1	7	5	h	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	10	4	3 443	84 800	2 902	5 824	60 171	540 512	376 618	890 598	D
33522	Major appliance mfg .....	-	6	4	3 406	83 746	2 871	5 763	59 578	537 963	373 105	884 434	D
335221	Household cooking appliance mfg .....	-	6	4	3 406	83 746	2 871	5 763	59 578	537 963	373 105	884 434	D
3353	Electrical equipment mfg ..	-	61	26	5 394	177 763	3 720	7 464	103 269	619 136	613 560	1 245 295	45 659
33531	Electrical equipment mfg .....	-	61	26	5 394	177 763	3 720	7 464	103 269	619 136	613 560	1 245 295	45 659
335311	Power, distribution, & specialty transformer mfg .....	-	10	4	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	-	14	5	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg .....	-	15	8	1 281	36 782	1 026	2 122	25 177	118 600	105 985	218 665	16 040
335314	Relay & industrial control mfg .....	-	22	9	1 904	70 172	985	1 824	28 615	318 603	304 996	639 414	15 642
3359	Other electrical equipment & component mfg .....	-	36	28	7 949	326 669	6 228	12 381	221 638	1 134 259	1 233 341	2 343 557	162 307
33591	Battery mfg .....	-	9	9	2 548	92 603	2 006	4 073	67 218	230 136	249 075	487 252	12 089
335911	Storage battery mfg ...	-	7	7	g	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	-	8	8	4 062	200 135	3 159	6 038	131 604	811 430	889 777	1 670 306	D
335921	Fiber optic cable mfg ..	-	3	3	h	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	5	5	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	13	9	1 087	27 763	916	2 077	20 105	81 865	86 052	166 101	D
335931	Current-carrying wiring device mfg .....	-	7	5	564	11 697	528	1 023	10 159	18 574	11 720	30 567	D
335932	Noncurrent-carrying wiring device mfg .....	-	6	4	523	16 066	388	1 054	9 946	63 291	74 332	135 534	7 352
33599	All other electrical equipment & component mfg .....	5	6	2	252	6 168	147	193	2 711	10 828	8 437	19 898	D
335999	All other miscellaneous electrical equipment & component mfg .....	5	6	2	252	6 168	147	193	2 711	10 828	8 437	19 898	D
336	Transportation equipment mfg .....	-	268	119	46 334	1 888 647	32 306	59 972	1 140 211	6 179 928	11 465 122	17 481 357	281 406
3361	Motor vehicle mfg .....	-	13	5	8 211	466 148	7 365	15 827	390 385	2 860 310	6 427 055	9 287 125	77 698
33611	Automobile & light duty motor vehicle mfg .....	-	10	3	i	D	D	D	D	D	D	D	D
336111	Automobile mfg .....	-	7	2	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg .....	-	3	1	h	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	3	2	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	3	2	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg .....	-	59	27	3 172	85 394	2 635	5 014	58 498	207 684	416 273	625 345	8 295
33621	Motor vehicle body & trailer mfg .....	-	59	27	3 172	85 394	2 635	5 014	58 498	207 684	416 273	625 345	8 295
336211	Motor vehicle body mfg .....	-	24	11	1 328	37 476	1 106	2 377	28 152	102 090	195 299	300 359	4 563
336212	Truck trailer mfg .....	-	15	10	1 288	35 636	1 101	1 839	22 122	78 355	131 163	208 495	3 174
336214	Travel trailer & camper mfg .....	-	19	6	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	116	53	9 430	247 189	7 637	14 605	176 741	679 007	872 395	1 569 320	83 137
33631	Motor vehicle gasoline engine & engine parts mfg .....	1	22	8	825	19 870	690	1 173	12 396	57 295	47 070	103 723	11 520
336311	Carburetor, piston, piston ring, & valve mfg .....	2	3	3	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg .....	1	19	5	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	-	24	12	2 039	54 884	1 765	3 121	44 545	145 921	233 423	376 960	21 600
336322	Other motor vehicle electrical & electronic equipment mfg .....	-	22	11	g	D	D	D	D	D	D	D	D

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

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

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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>GEORGIA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33633	Motor vehicle steering & suspension component (except spring) mfg . . . .	—	6	3	1 199	31 412	1 081	2 170	26 144	123 021	71 437	196 404	D
336330	Motor vehicle steering & suspension component (except spring) mfg . . . . .	—	6	3	1 199	31 412	1 081	2 170	26 144	123 021	71 437	196 404	D
33634	Motor vehicle brake system mfg . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg . . . . .	3	15	6	974	29 359	652	1 126	14 066	49 417	106 941	166 037	11 567
336350	Motor vehicle transmission & power train parts mfg . . . . .	3	15	6	974	29 359	652	1 126	14 066	49 417	106 941	166 037	11 567
33636	Motor vehicle seating & interior trim mfg . . . . .	—	7	3	e	D	D	D	D	D	D	D	718
336360	Motor vehicle seating & interior trim mfg . . . . .	—	7	3	e	D	D	D	D	D	D	D	718
33637	Motor vehicle metal stamping . . . . .	—	7	6	1 156	29 017	815	1 570	20 448	70 381	98 024	172 973	9 037
336370	Motor vehicle metal stamping . . . . .	—	7	6	1 156	29 017	815	1 570	20 448	70 381	98 024	172 973	9 037
33639	Other motor vehicle parts mfg . . . . .	—	31	13	2 295	59 975	1 836	3 825	41 658	182 366	157 715	341 660	18 851
336399	All other motor vehicle parts mfg . . . . .	—	30	13	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	34	18	18 849	891 125	10 127	16 127	400 432	1 736 116	2 769 819	4 320 186	77 169
33641	Aerospace product & parts mfg . . . . .	—	34	18	18 849	891 125	10 127	16 127	400 432	1 736 116	2 769 819	4 320 186	77 169
336411	Aircraft mfg . . . . .	—	7	6	14 802	743 786	7 523	10 598	325 882	1 318 950	2 473 466	3 627 972	42 257
336412	Aircraft engine & engine parts mfg . . . . .	—	9	7	2 204	69 192	1 639	3 320	41 783	219 095	147 994	363 958	24 476
336413	Other aircraft part & auxiliary equipment mfg . . . . .	—	15	3	f	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
336419	Other guided missile & space vehicle parts & auxiliary equip mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg . . . . .	—	8	5	g	D	D	D	D	D	D	D	4 644
33651	Railroad rolling stock mfg . . . . .	—	8	5	g	D	D	D	D	D	D	D	4 644
336510	Railroad rolling stock mfg . . . . .	—	8	5	g	D	D	D	D	D	D	D	4 644
3366	Ship & boat building . . . . .	3	26	7	g	D	D	D	D	D	D	D	3 996
33661	Ship & boat building . . . . .	3	26	7	g	D	D	D	D	D	D	D	3 996
336611	Ship building & repairing . . . . .	9	4	1	e	D	D	D	D	D	D	D	D
336612	Boat building . . . . .	—	22	6	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg . . . . .	—	12	4	3 649	108 400	1 916	2 818	42 533	435 600	586 354	1 029 099	26 467
33699	Other transportation equipment mfg . . . . .	—	12	4	3 649	108 400	1 916	2 818	42 533	435 600	586 354	1 029 099	26 467
336991	Motorcycle, bicycle, & parts mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg . . . . .	—	10	3	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	1	678	126	13 970	324 434	11 440	22 330	232 671	909 753	743 656	1 656 537	36 417
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	2	514	71	7 826	151 787	6 631	12 148	113 335	374 326	345 498	723 952	16 179
33711	Wood kitchen cabinet & counter top mfg . . . . .	1	350	36	3 520	71 116	2 919	5 214	51 624	196 919	141 373	337 971	8 567
337110	Wood kitchen cabinet & counter top mfg . . . . .	1	350	36	3 520	71 116	2 919	5 214	51 624	196 919	141 373	337 971	8 567

**Table 1. Industry Statistics for the State: 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>GEORGIA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg—Con.												
3371	Household & institutional furniture & kitchen cabinet mfg—Con.												
33712	Household & institutional furniture mfg . . . . .	2	164	35	4 306	80 671	3 712	6 934	61 711	177 407	204 125	385 981	7 612
337121	Upholstered household furniture mfg . . . . .	4	25	8	915	14 346	789	1 420	11 079	28 661	42 541	70 838	1 826
337122	Nonupholstered wood household furniture mfg . . . . .	1	97	17	1 892	34 977	1 656	3 080	26 348	89 760	106 614	196 087	3 598
337124	Metal household furniture mfg . . . . .	—	13	3	491	6 454	402	550	5 191	16 614	20 715	41 217	1 485
337125	Household furniture (except wood & metal) mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg . . . . .	2	24	5	e	D	D	D	D	D	D	D	690
337129	Wood television, radio, & sewing machine cabinet mfg . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg . . . . .	—	128	42	4 771	140 613	3 788	7 983	98 864	416 922	279 193	696 698	14 962
33721	Office furniture (including fixtures) mfg . . . . .	—	128	42	4 771	140 613	3 788	7 983	98 864	416 922	279 193	696 698	14 962
337211	Wood office furniture mfg . . . . .	1	18	6	802	22 623	679	1 480	15 391	54 832	28 539	82 708	2 623
337212	Custom architectural woodwork & millwork mfg . . . . .	2	31	8	484	12 642	395	740	8 505	29 943	13 557	43 667	650
337214	Office furniture (except wood) mfg . . . . .	—	12	6	1 137	39 545	971	2 376	34 094	191 893	126 888	319 882	6 437
337215	Showcase, partition, shelving, & locker mfg . . . . .	—	67	22	2 348	65 803	1 743	3 387	40 874	140 254	110 209	250 441	5 252
3379	Other furniture related product mfg . . . . .	1	36	13	1 373	32 034	1 021	2 199	20 472	118 505	118 965	235 887	5 276
33791	Mattress mfg . . . . .	1	25	10	894	23 103	723	1 555	14 974	97 235	77 216	174 505	4 077
337910	Mattress mfg . . . . .	1	25	10	894	23 103	723	1 555	14 974	97 235	77 216	174 505	4 077
33792	Blind & shade mfg . . . . .	—	11	3	479	8 931	298	644	5 498	21 270	41 749	61 382	1 199
337920	Blind & shade mfg . . . . .	—	11	3	479	8 931	298	644	5 498	21 270	41 749	61 382	1 199
339	Miscellaneous mfg . . . . .	1	681	100	16 464	499 475	11 742	24 246	256 359	1 253 132	936 831	2 250 861	97 775
3391	Medical equipment & supplies mfg . . . . .	1	323	33	7 380	246 128	5 050	9 294	116 708	614 280	470 364	1 137 461	41 159
33911	Medical equipment & supplies mfg . . . . .	1	323	33	7 380	246 128	5 050	9 294	116 708	614 280	470 364	1 137 461	41 159
339112	Surgical & medical instrument mfg . . . . .	—	19	5	1 167	56 429	491	866	10 871	181 756	158 548	349 854	3 581
339113	Surgical appliance & supplies mfg . . . . .	—	30	10	2 778	94 896	1 924	3 828	48 062	267 370	201 197	466 832	14 743
339114	Dental equipment & supplies mfg . . . . .	—	19	1	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg . . . . .	—	13	5	1 574	45 896	1 300	2 320	29 844	45 834	48 679	139 435	D
339116	Dental laboratories . . . . .	6	241	12	1 591	41 592	1 226	2 086	25 355	85 599	30 955	116 591	3 308
3399	Other miscellaneous mfg . . . . .	1	358	67	9 084	253 347	6 692	14 952	139 651	638 852	466 467	1 113 400	56 616
33991	Jewelry & silverware mfg . . . . .	4	22	3	132	2 418	103	142	1 371	5 535	6 492	11 986	98
33992	Sporting & athletic goods mfg . . . . .	4	54	9	850	28 362	559	1 091	12 457	85 970	57 081	147 158	8 453
339920	Sporting & athletic goods mfg . . . . .	4	54	9	850	28 362	559	1 091	12 457	85 970	57 081	147 158	8 453
33993	Doll, toy, & game mfg . . . . .	1	15	5	374	10 504	231	462	5 171	39 469	37 568	76 379	3 885
339932	Game, toy, & children's vehicle mfg . . . . .	1	14	5	e	D	D	D	D	D	D	D	3 885
33994	Office supplies (except paper) mfg . . . . .	2	23	6	653	15 697	540	1 411	8 007	35 947	44 112	83 214	2 212
339942	Lead pencil & art good mfg . . . . .	4	6	3	394	8 746	308	1 070	5 140	25 757	22 293	48 563	1 131
339944	Carbon paper & inked ribbon mfg . . . . .	—	6	2	162	3 931	147	205	1 589	5 280	18 956	27 027	978
33995	Sign mfg . . . . .	3	151	20	1 753	50 846	1 112	2 060	23 861	104 100	62 263	166 103	3 711
339950	Sign mfg . . . . .	3	151	20	1 753	50 846	1 112	2 060	23 861	104 100	62 263	166 103	3 711

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>GEORGIA—Con.</b>												
	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33999	All other miscellaneous mfg .....	—	93	24	5 322	145 520	4 147	9 786	88 784	367 831	258 951	628 560	38 257
339991	Gasket, packing, & sealing device mfg ...	—	12	3	1 083	34 595	908	2 286	21 062	83 360	63 597	148 036	D
339992	Musical instrument mfg .....	—	8	1	c	D	D	D	D	D	D	D	499
339993	Fastener, button, needle, & pin mfg ....	—	5	4	1 780	58 178	1 232	3 572	33 040	150 638	96 131	242 817	D
339994	Broom, brush, & mop mfg .....	1	7	5	440	10 725	335	714	5 870	29 158	24 070	53 138	1 500
339995	Burial casket mfg .....	2	7	2	c	D	D	D	D	D	D	D	102
339999	All other miscellaneous mfg .....	2	54	9	1 680	34 215	1 403	2 712	23 254	88 869	57 278	150 616	5 610

<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; g–500 to 999 employees; h–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>31-33</b>	<b>ALBANY, GA MSA</b>												
	<b>Manufacturing .....</b>	—	<b>98</b>	<b>46</b>	<b>9 046</b>	<b>320 284</b>	<b>7 427</b>	<b>15 817</b>	<b>236 412</b>	<b>1 922 970</b>	<b>2 412 900</b>	<b>4 331 357</b>	<b>309 009</b>
311	Food mfg .....	—	6	5	g	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	—	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
31191	Snack food mfg .....	—	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
311911	Roasted nuts & peanut butter mfg .....	—	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
312	Beverage & tobacco product mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	—	4	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 .....	—	3	3	f	D	D	D	D	D	D	D	2 498
3132	Fabric mills .....	—	1	1	e	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	—	1	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	—	1	1	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	—	2	2	e	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	—	2	2	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
321	Wood product mfg .....	1	8	5	404	8 141	321	594	5 830	17 064	54 499	73 516	2 038
3219	Other wood product mfg ...	—	4	2	e	D	D	D	D	D	D	D	D
32191	Millwork .....	—	2	2	e	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) ...	—	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>ALBANY, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
322	Paper mfg . . . . .	—	4	4	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	5	15	3	338	8 259	260	509	6 284	29 875	29 568	59 519	1 045
3231	Printing & related support activities . . . . .	5	15	3	338	8 259	260	509	6 284	29 875	29 568	59 519	1 045
32311	Printing . . . . .	5	15	3	338	8 259	260	509	6 284	29 875	29 568	59 519	1 045
325	Chemical mfg . . . . .	—	2	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
325411	Medicinal & botanical mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
336411	Aircraft mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	9	10	2	272	7 883	195	422	4 501	16 931	21 450	42 379	1 282
	<b>ATHENS, GA MSA</b>												
<b>31-33</b>	<b>Manufacturing . . . . .</b>	—	<b>151</b>	<b>52</b>	<b>10 960</b>	<b>274 612</b>	<b>8 803</b>	<b>18 234</b>	<b>197 014</b>	<b>687 858</b>	<b>964 944</b>	<b>1 646 286</b>	<b>100 928</b>
311	Food mfg . . . . .	—	8	3	2 894	54 147	2 577	5 904	43 599	81 098	206 770	281 327	D
3116	Meat product mfg . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	—	4	3	563	15 120	501	1 026	12 020	29 522	28 803	57 569	727
3131	Fiber, yarn, & thread mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	—	9	6	881	14 836	724	1 224	10 187	30 751	23 346	52 951	476
3152	Cut & sew apparel mfg . . . . .	—	8	5	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat 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>ATHENS, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
321	Wood product mfg . . . . .	-	8	2	340	9 707	281	695	7 530	16 433	23 941	40 379	1 677
3212	Veneer, plywood, & engineered wood product mfg . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg . . . . .	-	3	1	e	D	D	D	D	D	D	D	D
321213	Engineered wood member (except truss) mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	-	9	4	1 014	25 400	616	1 147	16 050	41 307	29 934	67 191	39 091
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 . . . . .	-	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
325413	In-vitro diagnostic substance mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	7	4	321	8 360	269	552	6 370	41 509	28 972	70 595	9 400
327	Nonmetallic mineral product mfg . . . . .	-	15	4	459	16 692	367	803	13 018	32 572	63 454	94 955	3 182
3279	Other nonmetallic mineral product mfg . . . . .	-	7	1	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg . . . . .	-	7	1	e	D	D	D	D	D	D	D	D
327993	Mineral wool mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	19	6	756	21 429	599	1 279	14 203	58 337	75 071	133 261	3 787
333	Machinery mfg . . . . .	-	7	5	724	25 618	471	870	14 278	80 276	141 245	221 123	7 174
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
333415	AC & warm air heating & commercial/ industrial refrig equip mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	-	3	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
334518	Watch, clock, & part mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	-	5	5	1 531	52 904	1 222	2 494	39 022	184 834	246 095	441 417	10 110
3353	Electrical equipment mfg . . . . .	-	4	4	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	-	4	4	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	-	13	3	342	5 844	231	477	3 934	13 400	30 217	40 741	1 046
3379	Other furniture related product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
33792	Blind & shade mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
337920	Blind & shade 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>ATLANTA, GA MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>4 394</b>	<b>1 413</b>	<b>190 720</b>	<b>6 385 657</b>	<b>135 382</b>	<b>275 685</b>	<b>3 768 919</b>	<b>22 741 669</b>	<b>27 344 061</b>	<b>49 691 816</b>	<b>1 450 140</b>
311	Food mfg.....	2	214	98	18 201	484 455	14 065	28 411	321 018	2 921 762	2 781 996	5 701 444	164 808
3111	Animal food mfg.....	1	10	5	487	19 650	351	819	13 176	199 369	378 521	577 462	14 093
31111	Animal food mfg.....	1	10	5	487	19 650	351	819	13 176	199 369	378 521	577 462	14 093
311119	Other animal food mfg.....	2	8	4	e	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling ....	1	7	4	561	21 119	439	1 011	16 116	249 912	209 197	460 275	6 559
31122	Starch & vegetable fats & oils mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending.....	-	4	2	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg....	1	2	2	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg..	1	2	2	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	1	7	3	e	D	D	D	D	D	D	D	405
3115	Dairy product mfg.....	-	10	7	651	20 240	464	1 109	13 044	68 366	152 191	220 052	D
31151	Dairy product (except frozen) mfg.....	-	7	5	e	D	D	D	D	D	D	D	3 683
311511	Fluid milk mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	2	39	23	8 285	173 560	7 234	14 284	132 982	565 788	950 363	1 507 686	30 780
31161	Animal slaughtering & processing.....	2	39	23	8 285	173 560	7 234	14 284	132 982	565 788	950 363	1 507 686	30 780
311611	Animal (except poultry) slaughtering.....	8	11	2	269	7 335	228	585	5 605	18 443	79 488	98 405	1 458
311612	Meat processed from carcasses.....	-	15	8	1 130	31 515	896	1 981	22 287	186 975	231 202	414 449	4 383
311613	Rendering & meat byproduct processing.....	3	5	5	342	8 995	201	418	4 156	37 020	45 354	82 434	3 143
311615	Poultry processing....	3	8	8	6 544	125 715	5 909	11 300	100 934	323 350	594 319	912 398	21 796
3118	Bakeries & tortilla mfg.....	1	95	32	4 693	135 915	3 086	5 975	82 552	402 859	378 986	787 271	62 655
31181	Bread & bakery product mfg.....	2	76	23	2 849	78 387	1 623	3 317	41 231	204 607	194 200	400 451	D
311812	Commercial bakeries .	-	33	15	1 905	52 654	944	1 859	24 254	114 671	105 043	219 566	D
311813	Frozen cakes, pies, & other pastries mfg ...	4	7	6	757	23 711	585	1 342	16 011	84 491	85 918	172 189	22 400
31182	Cookie, cracker, & pasta mfg.....	1	15	7	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	-	7	2	f	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour.....	1	5	5	g	D	D	D	D	D	D	D	D
3119	Other food mfg.....	2	37	23	3 114	104 229	2 202	4 659	56 473	1 384 100	673 696	2 057 978	45 499
31191	Snack food mfg.....	2	6	6	f	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg.....	9	1	1	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg .	-	5	5	e	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
31193	Flavoring syrup & concentrate mfg.....	2	5	3	e	D	D	D	D	D	D	D	D
311930	Flavoring syrup & concentrate mfg.....	2	5	3	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	3	10	7	946	35 794	694	1 423	19 120	124 731	195 658	320 702	D
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	7	3	3	432	13 986	336	725	8 680	53 128	71 993	125 163	D
311942	Spice & extract mfg....	-	7	4	514	21 808	358	698	10 440	71 603	123 665	195 539	2 767
31199	All other food mfg.....	3	12	5	e	D	D	D	D	D	D	D	8 817
311999	All other miscellaneous food mfg.....	3	11	5	e	D	D	D	D	D	D	D	8 817
312	Beverage & tobacco product mfg.....	-	31	13	g	D	D	D	D	D	D	D	86 128
3121	Beverage mfg.....	-	29	11	1 984	84 155	1 224	2 796	49 047	938 253	672 289	1 607 261	D
31211	Soft drink & ice mfg.....	-	21	8	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	-	10	6	g	D	D	D	D	D	D	D	D
31212	Breweries.....	-	6	2	f	D	D	D	D	D	D	D	D
312120	Breweries.....	-	6	2	f	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>31-33</b>	<b>ATLANTA, GA MSA— Con.  Manufacturing— Con.</b>												
313	Textile mills .....	-	75	31	5 626	138 820	4 824	9 844	104 933	392 203	459 922	826 087	26 491
3131	Fiber, yarn, & thread mills .	-	12	10	1 791	38 488	1 624	3 119	31 987	89 376	115 688	204 170	7 632
31311	Fiber, yarn, & thread	-	12	10	1 791	38 488	1 624	3 119	31 987	89 376	115 688	204 170	7 632
313111	mills .....	-	7	6	1 044	21 893	1 004	1 893	20 385	52 088	53 628	104 605	4 825
313112	Yarn spinning mills ...	-	7	6	1 044	21 893	1 004	1 893	20 385	52 088	53 628	104 605	4 825
31312	Yarn texturing, throwing, & twisting mills .....	-	5	4	747	16 595	620	1 226	11 602	37 288	62 060	99 565	2 807
3132	Fabric mills .....	-	33	12	2 533	70 170	2 126	4 482	50 633	185 388	205 742	388 212	10 179
31321	Broadwoven fabric mills .	-	18	7	1 981	54 828	1 726	3 660	41 608	155 575	156 270	309 753	7 174
313210	Broadwoven fabric mills .....	-	18	7	1 981	54 828	1 726	3 660	41 608	155 575	156 270	309 753	7 174
31324	Knit fabric mills .....	7	3	3	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	-	30	9	1 302	30 162	1 074	2 243	22 313	117 439	138 492	233 705	8 680
31331	Textile & fabric finishing mills .....	-	27	8	g	D	D	D	D	D	D	D	8 466
313311	Broadwoven fabric finishing mills .....	-	22	6	1 088	25 017	948	1 983	19 133	92 868	116 377	187 562	7 750
314	Textile product mills .....	1	138	43	6 091	142 587	5 222	11 285	107 209	382 025	568 005	939 753	22 368
3141	Textile furnishings mills ....	1	68	21	3 310	76 508	2 839	6 244	57 905	217 019	332 142	547 299	8 250
31411	Carpet & rug mills .....	-	19	9	1 885	51 749	1 663	4 079	41 485	169 975	250 804	419 329	6 617
314110	Carpet & rug mills ....	-	19	9	1 885	51 749	1 663	4 079	41 485	169 975	250 804	419 329	6 617
31412	Curtain & linen mills .....	1	49	12	1 425	24 759	1 176	2 165	16 420	47 044	81 338	127 970	1 633
314121	Curtain & drapery mills .....	2	31	4	408	7 442	308	532	4 396	8 644	12 768	21 324	468
314129	Other household textile product mills .....	1	18	8	1 017	17 317	868	1 633	12 024	38 400	68 570	106 646	1 165
3149	Other textile product mills ..	1	70	22	2 781	66 079	2 383	5 041	49 304	165 006	235 863	392 454	14 118
31491	Textile bag & canvas mills .....	4	23	6	486	11 690	378	722	6 766	20 790	18 161	39 859	1 029
314912	Canvas & related product mills .....	6	18	4	279	7 210	207	431	4 118	12 774	11 988	25 799	764
31499	All other textile product mills .....	-	47	16	2 295	54 389	2 005	4 319	42 538	144 216	217 702	352 595	13 089
314992	Tire cord & tire fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	40	13	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	2	131	50	7 543	161 818	5 810	10 956	115 034	509 569	928 173	1 386 825	D
3151	Apparel knitting mills .....	-	12	7	669	11 678	494	859	7 239	20 522	29 986	48 602	D
31511	Hosiery & sock mills ....	-	9	6	f	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	1	6	4	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	2	86	36	6 237	139 701	4 782	9 171	99 956	469 549	881 153	1 301 706	6 798
31521	Cut & sew apparel contractors .....	-	35	11	g	D	D	D	D	D	D	D	1 205
315211	Men's & boys' cut & sew apparel contractors .....	-	7	7	1 649	26 323	1 525	2 745	23 050	41 731	13 762	54 764	687
315212	Women's, girls', & infants' cut & sew apparel contractors ..	1	28	4	e	D	D	D	D	D	D	D	518
31522	Men's & boys' cut & sew apparel mfg .....	2	19	9	1 398	38 987	1 072	2 077	27 673	181 609	484 627	624 559	2 597
315221	Men's & boys' cut & sew underwear & nightwear mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	-	7	5	739	24 814	533	1 008	16 817	115 076	358 916	434 988	2 216
31523	Women's & girls' cut & sew apparel mfg .....	3	24	14	2 519	62 910	1 632	3 317	41 314	215 680	342 525	556 930	2 760
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	9	5	4	e	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg .....	-	13	7	773	22 639	438	820	14 149	75 850	138 919	211 776	D
31529	Other cut & sew apparel mfg .....	-	8	2	e	D	D	D	D	D	D	D	236
315291	Infants' cut & sew apparel 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>ATLANTA, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg . . . . .	1	33	7	637	10 439	534	926	7 839	19 498	17 034	36 517	1 233
31599	Apparel accessories & other apparel mfg . . . . .	1	33	7	637	10 439	534	926	7 839	19 498	17 034	36 517	1 233
315991	Hat, cap, & millinery mfg . . . . .	1	6	4	334	5 081	293	533	4 061	7 271	6 159	13 419	316
315999	Other apparel accessories & other apparel mfg . . . . .	1	27	3	303	5 358	241	393	3 778	12 227	10 875	23 098	917
321	Wood product mfg . . . . .	1	139	49	3 198	83 854	2 591	5 228	56 696	172 838	336 254	503 145	13 693
3211	Sawmills & wood preservation . . . . .	1	11	5	267	8 800	206	418	5 835	26 152	140 761	164 244	5 290
32111	Sawmills & wood preservation . . . . .	1	11	5	267	8 800	206	418	5 835	26 152	140 761	164 244	5 290
3212	Veneer, plywood, & engineered wood product mfg . . . . .	1	20	9	632	15 607	510	1 052	9 583	29 725	52 776	82 523	1 349
32121	Veneer, plywood, & engineered wood product mfg . . . . .	1	20	9	632	15 607	510	1 052	9 583	29 725	52 776	82 523	1 349
321214	Truss mfg . . . . .	1	17	8	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg . . . . .	2	108	35	2 299	59 447	1 875	3 758	41 278	116 961	142 717	256 378	7 054
32191	Millwork . . . . .	1	57	23	1 565	45 539	1 295	2 711	31 662	82 860	108 565	189 069	5 676
321911	Wood window & door mfg . . . . .	1	22	9	692	20 926	609	1 306	15 996	31 005	56 519	87 323	D
321918	Other millwork (including flooring) . . . . .	2	29	13	828	23 811	652	1 339	15 061	47 415	47 026	92 290	3 449
32192	Wood container & pallet mfg . . . . .	3	29	5	355	6 538	296	531	4 660	15 022	12 802	27 797	589
321920	Wood container & pallet mfg . . . . .	3	29	5	355	6 538	296	531	4 660	15 022	12 802	27 797	589
32199	All other wood product mfg . . . . .	2	22	7	379	7 370	284	516	4 956	19 079	21 350	39 512	789
321999	All other miscellaneous wood product mfg . . . . .	1	19	6	e	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	—	121	89	9 303	304 005	6 967	15 473	204 172	1 051 183	1 335 808	2 363 999	70 108
3221	Pulp, paper, & paperboard mills . . . . .	—	4	4	488	23 122	362	998	15 999	105 861	90 688	195 848	8 246
32213	Paperboard mills . . . . .	—	4	4	488	23 122	362	998	15 999	105 861	90 688	195 848	8 246
322130	Paperboard mills . . . . .	—	4	4	488	23 122	362	998	15 999	105 861	90 688	195 848	8 246
3222	Converted paper product mfg . . . . .	—	117	85	8 815	280 883	6 605	14 475	188 173	945 322	1 245 120	2 168 151	61 862
32221	Paperboard container mfg . . . . .	—	69	57	5 686	185 562	4 185	9 297	118 683	497 029	756 195	1 242 372	30 843
322211	Corrugated & solid fiber box mfg . . . . .	—	47	40	3 456	116 763	2 429	5 397	70 346	304 233	470 984	773 911	19 896
322212	Folding paperboard box mfg . . . . .	—	12	9	1 642	51 508	1 245	2 988	35 139	155 262	218 879	364 096	D
322214	Fiber can, tube, drum, & similar products mfg . . . . .	—	8	6	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg . . . . .	—	15	10	792	27 174	546	1 114	18 141	174 826	210 316	384 333	11 449
322222	Coated & laminated paper mfg . . . . .	—	11	6	517	18 266	328	643	12 464	146 205	160 253	308 845	10 295
32223	Stationery product mfg . . . . .	—	19	10	g	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
322232	Envelope mfg . . . . .	—	10	6	764	22 946	615	1 259	16 250	71 573	68 525	137 280	4 565
322233	Stationery, tablet, & related product mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	4	14	8	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg . . . . .	4	4	3	f	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg . . . . .	5	10	5	e	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	2	812	152	14 305	485 464	9 653	19 096	282 782	1 121 061	762 274	1 882 900	84 950
3231	Printing & related support activities . . . . .	2	812	152	14 305	485 464	9 653	19 096	282 782	1 121 061	762 274	1 882 900	84 950

**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>ATLANTA, GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
323	Printing & related support activities—Con.												
3231	Printing & related support activities—Con.												
32311	Printing . . . . .	2	714	128	12 532	423 633	8 416	16 692	245 935	988 447	733 292	1 721 214	77 171
323110	Commercial lithographic printing . . . . .	2	347	72	7 458	275 174	4 925	9 916	161 053	578 764	431 359	1 010 486	47 793
323111	Commercial gravure printing . . . . .	6	8	4	f	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing . . . . .	—	20	7	559	19 410	351	798	10 358	62 892	65 491	127 925	3 452
323113	Commercial screen printing . . . . .	1	69	13	902	23 771	533	961	9 742	48 190	47 051	96 601	5 914
323114	Quick printing . . . . .	2	163	8	927	25 430	636	1 149	15 234	53 120	29 995	82 914	3 617
323116	Manifold business form printing . . . . .	1	17	10	1 111	26 745	904	1 742	20 662	100 397	60 549	160 227	6 748
323117	Book printing . . . . .	1	12	4	297	9 403	222	457	6 524	17 778	13 481	31 186	D
323119	Other commercial printing . . . . .	5	67	8	522	15 317	342	601	8 281	29 923	22 253	52 003	D
32312	Support activities for printing . . . . .	1	98	24	1 773	61 831	1 237	2 404	36 847	132 614	28 982	161 686	7 779
323121	Tradebinding & related work . . . . .	2	28	7	504	12 589	417	800	9 221	23 850	5 735	29 571	1 009
323122	Prepress services . . . . .	1	70	17	1 269	49 242	820	1 604	27 626	108 764	23 247	132 115	6 770
324	Petroleum & coal products mfg . . . . .	3	34	9	f	D	D	D	D	D	D	D	25 208
3241	Petroleum & coal products mfg . . . . .	3	34	9	f	D	D	D	D	D	D	D	25 208
32412	Asphalt paving, roofing, & saturated materials mfg . . . . .	1	26	5	488	17 970	400	852	13 160	69 882	137 013	209 119	D
324122	Asphalt shingle & coating materials mfg . . . . .	—	5	4	331	11 985	270	534	8 707	42 340	75 949	120 385	D
325	Chemical mfg . . . . .	1	251	107	10 350	381 855	5 570	11 120	163 931	2 035 512	1 986 247	4 014 655	123 889
3251	Basic chemical mfg . . . . .	—	28	9	1 110	39 019	593	1 074	17 669	260 450	173 661	435 238	9 420
32518	Other basic inorganic chemical mfg . . . . .	—	10	3	330	14 100	245	506	8 959	33 970	46 858	82 841	3 164
325188	All other basic inorganic chemical mfg . . . . .	—	9	3	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg . . . . .	1	9	4	680	21 797	281	452	7 152	190 521	102 538	292 155	3 982
325199	All other basic organic chemical mfg . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	3	14	8	1 215	42 641	731	1 360	22 582	206 644	282 016	488 909	22 361
32521	Resin & synthetic rubber mfg . . . . .	—	11	7	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg . . . . .	—	10	7	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg . . . . .	9	3	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg . . . . .	9	3	1	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg . . . . .	1	8	3	322	11 934	168	330	3 014	33 365	40 651	73 430	4 257
32532	Pesticide & other agricultural chemical mfg . . . . .	—	4	3	302	11 379	153	295	2 649	30 700	32 578	62 765	D
325320	Pesticide & other agricultural chemical mfg . . . . .	—	4	3	302	11 379	153	295	2 649	30 700	32 578	62 765	D
3254	Pharmaceutical & medicine mfg . . . . .	1	18	9	674	25 535	301	556	7 815	86 199	36 950	122 316	16 536
32541	Pharmaceutical & medicine mfg . . . . .	1	18	9	674	25 535	301	556	7 815	86 199	36 950	122 316	16 536
325412	Pharmaceutical preparation mfg . . . . .	1	6	4	e	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg . . . . .	—	62	20	1 569	63 432	793	1 592	24 465	315 442	432 447	744 048	20 358
32551	Paint & coating mfg . . . . .	1	37	9	823	30 439	391	726	10 772	165 874	236 341	400 007	9 736
325510	Paint & coating mfg . . . . .	1	37	9	823	30 439	391	726	10 772	165 874	236 341	400 007	9 736
32552	Adhesive mfg . . . . .	—	25	11	746	32 993	402	866	13 693	149 568	196 106	344 041	10 622
325520	Adhesive mfg . . . . .	—	25	11	746	32 993	402	866	13 693	149 568	196 106	344 041	10 622
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	—	59	27	2 732	101 709	1 390	2 975	42 009	726 895	486 121	1 216 549	25 805
32561	Soap & cleaning compound mfg . . . . .	—	47	21	g	D	D	D	D	D	D	D	24 479
325611	Soap & other detergent mfg . . . . .	—	27	12	g	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg . . . . .	—	19	9	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>31-33</b>	<b>ATLANTA, GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3259	Other chemical product mfg	1	62	31	2 728	97 585	1 594	3 233	46 377	406 517	534 401	934 165	25 152
32591	Printing ink mfg	3	21	12	430	16 785	241	493	7 603	52 611	79 578	131 110	D
325910	Printing ink mfg	3	21	12	430	16 785	241	493	7 603	52 611	79 578	131 110	D
32599	All other chemical product & preparation mfg	—	41	19	2 298	80 800	1 353	2 740	38 774	353 906	454 823	803 055	D
325991	Custom compounding of purchased resin...	—	11	7	892	34 363	461	973	15 690	117 759	187 617	299 331	14 406
325998	All other miscellaneous chemical product & preparation mfg	—	23	8	1 158	38 449	764	1 511	20 361	212 684	246 013	459 083	7 484
326	Plastics & rubber products mfg	—	234	133	15 793	443 420	12 587	26 131	303 325	1 452 695	1 446 456	2 897 681	148 556
3261	Plastics product mfg	—	195	114	13 008	368 254	10 287	21 376	248 295	1 204 664	1 224 932	2 423 674	134 198
32611	Unsupported plastics film, sheet, & bag mfg	—	32	25	3 106	98 125	2 427	5 196	67 981	401 966	424 035	823 377	33 932
326111	Unsupported plastics bag mfg	—	10	10	1 367	43 465	1 146	2 389	31 694	167 916	153 667	323 626	D
326112	Unsupported plastics packaging film & sheet mfg	—	6	5	801	28 409	628	1 433	20 749	93 987	130 850	223 145	7 375
326113	Unsupported plastics film & sheet (except packaging) mfg	—	16	10	938	26 251	653	1 374	15 538	140 063	139 518	276 606	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	15	7	e	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg	1	10	4	305	8 494	174	382	3 705	16 828	12 016	28 324	3 086
32614	Polystyrene foam product mfg	—	14	9	1 677	47 637	1 334	2 971	34 453	215 537	182 472	399 683	25 769
326140	Polystyrene foam product mfg	—	14	9	1 677	47 637	1 334	2 971	34 453	215 537	182 472	399 683	25 769
32615	Urethane & other foam product (except polystyrene) mfg	1	9	5	473	14 910	370	800	9 534	30 603	40 609	70 946	2 448
326150	Urethane & other foam product (except polystyrene) mfg	1	9	5	473	14 910	370	800	9 534	30 603	40 609	70 946	2 448
32616	Plastics bottle mfg	—	13	10	1 019	29 502	912	1 917	24 350	80 770	86 916	167 063	19 574
326160	Plastics bottle mfg	—	13	10	1 019	29 502	912	1 917	24 350	80 770	86 916	167 063	19 574
32619	Other plastics product mfg	1	106	57	6 219	162 154	4 929	9 862	104 220	447 362	445 895	890 223	47 774
326191	Plastics plumbing fixture mfg	7	11	5	384	9 127	308	593	5 771	22 160	17 202	39 401	932
326199	All other plastics product mfg	—	95	52	5 835	153 027	4 621	9 269	98 449	425 202	428 693	850 822	46 842
3262	Rubber product mfg	—	39	19	2 785	75 166	2 300	4 755	55 030	248 031	221 524	474 007	14 358
32621	Tire mfg	—	16	6	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	4	2	f	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg	—	4	2	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg	—	4	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	—	19	11	1 525	40 420	1 267	2 539	30 000	139 922	82 275	222 375	8 610
326291	Rubber product mfg for mechanical use	—	8	5	1 077	26 492	922	1 827	20 498	89 595	45 100	135 061	6 222
326299	All other rubber product mfg	—	11	6	448	13 928	345	712	9 502	50 327	37 175	87 314	2 388
327	Nonmetallic mineral product mfg	—	231	86	7 137	230 661	5 637	11 939	167 865	788 904	751 682	1 545 281	48 112
3271	Clay product & refractory mfg	—	20	9	1 145	31 005	957	1 824	24 042	92 761	54 201	147 659	D
32711	Pottery, ceramics, & plumbing fixture mfg	—	13	5	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	4	3	f	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	—	7	4	e	D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg	—	2	2	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	—	28	9	1 101	38 068	870	1 729	28 158	117 322	161 962	281 968	9 696
32721	Glass & glass product mfg	—	28	9	1 101	38 068	870	1 729	28 158	117 322	161 962	281 968	9 696
327213	Glass container mfg	—	2	2	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	25	7	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>ATLANTA, GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg . . . . .	—	140	51	3 285	107 926	2 589	5 829	77 397	373 660	369 483	745 305	D
32732	Ready-mix concrete mfg.	—	85	32	1 574	57 457	1 377	3 165	44 928	177 817	242 244	420 930	8 669
327320	Ready-mix concrete mfg . . . . .	—	85	32	1 574	57 457	1 377	3 165	44 928	177 817	242 244	420 930	8 669
32739	Other concrete product mfg . . . . .	—	35	17	1 359	37 143	960	2 044	23 350	126 548	82 122	208 415	5 759
327390	Other concrete product mfg . . . . .	—	35	17	1 359	37 143	960	2 044	23 350	126 548	82 122	208 415	5 759
3279	Other nonmetallic mineral product mfg . . . . .	1	38	15	g	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg . . . . .	—	36	14	1 366	46 039	1 048	2 169	33 754	173 096	104 502	278 105	10 982
327991	Cut stone & stone product mfg . . . . .	2	17	4	271	6 847	212	457	4 711	16 649	7 430	23 583	1 449
327993	Mineral wool mfg . . . . .	—	9	5	833	32 936	658	1 316	24 792	136 057	80 409	217 957	D
327999	All other miscellaneous nonmetallic mineral product mfg . . . . .	1	10	5	262	6 256	178	396	4 251	20 390	16 663	36 565	D
331	Primary metal mfg . . . . .	—	38	18	2 503	89 506	1 920	4 179	62 126	207 965	895 830	1 101 640	28 957
3311	Iron & steel mills & ferroalloy mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel . . . . .	—	9	8	e	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel . . . . .	1	6	5	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing . . . . .	—	4	2	694	23 031	532	1 211	14 395	53 489	67 953	122 540	D
33131	Alumina & aluminum production & processing . . . . .	—	4	2	694	23 031	532	1 211	14 395	53 489	67 953	122 540	D
331316	Aluminum extruded product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing . . . . .	—	9	5	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	518	158	13 247	407 333	9 689	19 439	251 882	958 258	993 487	1 947 359	60 952
3321	Forging & stamping . . . . .	—	23	10	834	26 916	650	1 269	17 884	71 796	79 396	149 814	3 101
33211	Forging & stamping . . . . .	—	23	10	834	26 916	650	1 269	17 884	71 796	79 396	149 814	3 101
332116	Metal stamping . . . . .	—	18	8	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg . . . . .	3	21	10	697	21 510	448	809	10 409	48 984	28 085	77 434	3 039
33221	Cutlery & handtool mfg . . . . .	3	21	10	697	21 510	448	809	10 409	48 984	28 085	77 434	3 039
332212	Hand & edge tool mfg . . . . .	4	16	7	403	10 879	300	484	6 401	26 482	14 183	40 559	D
332213	Saw blade & handsaw mfg . . . . .	2	4	3	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg . . . . .	1	162	62	4 919	149 021	3 405	6 940	85 061	341 311	437 799	774 601	20 386
33231	Plate work & fabricated structural product mfg . . . . .	2	40	18	1 111	36 697	730	1 499	21 235	82 786	123 183	205 770	7 417
332312	Fabricated structural metal mfg . . . . .	2	32	16	1 030	34 292	681	1 408	20 053	75 225	115 165	190 190	6 891
33232	Ornamental & architectural metal products mfg . . . . .	—	122	44	3 808	112 324	2 675	5 441	63 826	258 525	314 616	568 831	12 969
332321	Metal window & door mfg . . . . .	—	23	13	1 711	47 629	1 143	2 356	26 372	104 969	145 511	247 450	4 013
332322	Sheet metal work mfg . . . . .	—	62	23	1 508	46 999	1 134	2 306	28 128	109 675	118 957	227 202	7 155
332323	Ornamental & architectural metal work mfg . . . . .	1	37	8	589	17 696	398	779	9 326	43 881	50 148	94 179	1 801
3324	Boiler, tank, & shipping container mfg . . . . .	—	20	11	1 187	41 256	882	1 866	30 365	91 609	158 467	254 135	9 224
33242	Metal tank (heavy gauge) mfg . . . . .	—	10	6	789	26 058	559	1 279	17 944	44 932	67 422	112 764	D
332420	Metal tank (heavy gauge) mfg . . . . .	—	10	6	789	26 058	559	1 279	17 944	44 932	67 422	112 764	D
33243	Metal can, box, & other metal container (light gauge) mfg . . . . .	—	5	5	368	14 301	302	548	11 848	44 980	89 448	138 077	D
3325	Hardware mfg . . . . .	—	7	4	385	11 444	250	555	5 224	28 758	35 849	64 982	740
33251	Hardware mfg . . . . .	—	7	4	385	11 444	250	555	5 224	28 758	35 849	64 982	740
332510	Hardware mfg . . . . .	—	7	4	385	11 444	250	555	5 224	28 758	35 849	64 982	740

**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>ATLANTA, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3326	Spring & wire product mfg .	—	16	7	680	16 545	571	1 095	12 142	58 057	51 832	109 040	2 023
33261	Spring & wire product mfg . . . . .	—	16	7	680	16 545	571	1 095	12 142	58 057	51 832	109 040	2 023
332612	Spring (light gauge) mfg . . . . .	—	4	4	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	2	180	26	1 917	64 305	1 390	2 628	39 383	128 831	53 066	178 792	10 817
33271	Machine shops . . . . .	2	166	21	1 504	50 469	1 168	2 155	32 183	101 108	42 252	141 097	8 392
332710	Machine shops . . . . .	2	166	21	1 504	50 469	1 168	2 155	32 183	101 108	42 252	141 097	8 392
33272	Turned product & screw, nut, & bolt mfg . . . . .	—	14	5	413	13 836	222	473	7 200	27 723	10 814	37 695	2 425
332721	Precision turned product mfg . . . . .	—	11	3	308	10 395	146	315	5 249	18 553	6 568	24 597	1 344
3328	Coating, engraving, heat treating, & allied activities .	2	33	11	925	27 560	722	1 499	17 244	58 819	43 302	102 778	4 007
33281	Coating, engraving, heat treating, & allied activities . . . . .	2	33	11	925	27 560	722	1 499	17 244	58 819	43 302	102 778	4 007
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	1	14	5	342	12 772	237	500	6 304	30 603	26 909	58 333	D
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	3	17	5	f	D	D	D	D	D	D	D	2 195
3329	Other fabricated metal product mfg . . . . .	1	56	17	1 703	48 776	1 371	2 778	34 170	130 093	105 691	235 783	7 615
33299	All other fabricated metal product mfg . . . . .	1	49	14	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg . . . . .	—	10	1	463	10 081	401	772	8 427	29 571	34 273	63 862	2 117
332999	All other miscellaneous fabricated metal product mfg . . . . .	1	26	11	709	20 746	563	1 141	14 289	43 882	47 929	92 063	2 839
333	Machinery mfg . . . . .	1	261	92	10 322	349 694	6 606	13 544	178 447	1 039 128	885 726	1 849 516	56 947
3331	Agriculture, construction, & mining machinery mfg . . . . .	—	21	13	1 601	47 764	1 050	2 090	22 265	151 271	163 217	277 534	11 686
33311	Agricultural implement mfg . . . . .	—	10	7	g	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	2	1	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	2	63	22	1 587	60 035	961	1 995	30 082	101 687	101 426	204 733	7 021
33329	Other industrial machinery mfg . . . . .	2	55	19	1 325	51 569	843	1 752	26 590	84 122	88 038	173 460	6 563
333293	Printing machinery & equipment mfg . . . . .	—	11	3	e	D	D	D	D	D	D	D	D
333294	Food product machinery mfg . . . . .	—	11	6	271	10 066	153	290	4 265	19 001	20 851	39 902	805
333298	All other industrial machinery mfg . . . . .	3	20	7	526	20 398	326	737	10 477	36 775	36 042	73 876	3 674
3333	Commercial & service industry machinery mfg . . . . .	1	31	10	686	22 923	478	898	12 301	99 596	66 215	166 692	D
33331	Commercial & service industry machinery mfg . . . . .	1	31	10	686	22 923	478	898	12 301	99 596	66 215	166 692	D
333319	Other commercial & service industry machinery mfg . . . . .	1	18	5	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	1	21	15	2 638	92 618	1 830	4 213	50 430	234 732	213 443	440 743	12 862
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	1	21	15	2 638	92 618	1 830	4 213	50 430	234 732	213 443	440 743	12 862
333415	AC & warm air heating & commercial/industrial refig equip mfg . . . . .	1	11	9	2 230	80 586	1 576	3 709	44 597	194 992	164 318	353 803	11 278
3335	Metalworking machinery mfg . . . . .	2	48	10	f	D	D	D	D	D	D	D	3 097
33351	Metalworking machinery mfg . . . . .	2	48	10	f	D	D	D	D	D	D	D	3 097
333514	Special die & tool, die set, jig, & fixture mfg . . . . .	2	27	5	429	14 136	355	645	11 415	27 890	10 963	38 527	1 947

**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>ATLANTA, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg . . . . .	—	73	20	2 963	96 572	1 666	3 177	43 376	394 760	299 697	660 944	19 258
33392	Material handling equipment mfg . . . . .	—	19	6	658	23 591	298	639	8 866	54 781	63 946	117 051	1 181
333922	Conveyor & conveying equipment mfg . . . . .	—	10	4	374	13 703	171	357	5 473	34 705	21 859	55 933	605
33399	All other general-purpose machinery mfg . . . . .	—	45	13	2 211	70 223	1 314	2 442	33 273	330 941	230 372	529 796	17 732
333991	Power-driven handtool mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg . . . . .	—	19	7	f	D	D	D	D	D	D	D	3 148
334	Computer & electronic product mfg . . . . .	1	225	87	17 436	656 827	10 713	21 465	290 343	2 011 754	2 070 620	4 072 913	108 251
3341	Computer & peripheral equipment mfg . . . . .	—	34	11	2 559	121 413	1 257	2 457	40 548	371 179	360 984	746 493	16 240
33411	Computer & peripheral equipment mfg . . . . .	—	34	11	2 559	121 413	1 257	2 457	40 548	371 179	360 984	746 493	16 240
334111	Electronic computer mfg . . . . .	—	9	1	e	D	D	D	D	D	D	D	D
334113	Computer terminal mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg . . . . .	—	18	6	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg . . . . .	3	48	21	4 062	185 898	2 410	6 197	90 335	596 238	569 223	1 136 589	D
33421	Telephone apparatus mfg . . . . .	2	10	4	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg . . . . .	2	10	4	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	3	27	15	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	3	27	15	h	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg . . . . .	—	9	3	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg . . . . .	—	9	3	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg . . . . .	—	9	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg . . . . .	—	50	21	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg . . . . .	—	50	21	h	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg . . . . .	2	17	10	g	D	D	D	D	D	D	D	4 957
334418	Printed circuit assembly (electronic assembly) mfg . . . . .	—	8	7	2 033	65 327	1 278	2 053	19 858	172 840	278 491	462 144	7 101
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	2	63	24	3 080	116 825	1 688	3 331	45 888	338 533	256 296	601 405	18 042
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	2	63	24	3 080	116 825	1 688	3 331	45 888	338 533	256 296	601 405	18 042
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	—	5	4	706	30 414	351	697	8 601	107 012	61 629	176 897	D
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	—	5	2	332	19 025	66	135	2 008	39 105	22 843	59 630	D
334513	Industrial process control instrument mfg . . . . .	5	16	9	748	22 762	432	829	8 606	87 957	89 728	179 022	5 196
334515	Electricity measuring & testing instrument mfg . . . . .	—	10	2	437	13 581	312	620	6 333	40 539	34 485	73 052	1 831
334516	Analytical laboratory instrument mfg . . . . .	2	8	2	e	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg . . . . .	1	9	3	337	11 703	242	487	6 420	18 718	25 237	44 197	995

**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>ATLANTA, GA MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3346	Mfg & reproducing magnetic & optical media .	-	21	7	h	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	-	21	7	h	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	-	11	3	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	-	8	4	1 827	57 509	1 254	1 883	28 658	252 930	256 296	502 641	14 870
335	Electrical equipment, appliance, & component mfg . . . . .	-	71	31	8 740	355 842	6 020	11 757	208 292	1 292 093	1 288 303	2 548 124	172 988
3351	Electric lighting equipment mfg . . . . .	4	8	3	g	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg . . . . .	4	8	3	g	D	D	D	D	D	D	D	D
335122	Commercial/industrial/ institutional electric lighting fixture mfg . . . . .	5	4	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg . . . . .	-	40	14	g	D	D	D	D	D	D	D	23 194
33531	Electrical equipment mfg . . . . .	-	40	14	g	D	D	D	D	D	D	D	23 194
335313	Switchgear & apparatus mfg . . . . .	-	12	6	1 031	31 444	822	1 720	21 531	98 472	88 971	181 445	D
335314	Relay & industrial control mfg . . . . .	-	18	7	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	-	19	14	4 827	221 515	3 715	7 102	145 910	828 472	857 470	1 653 384	145 678
33591	Battery mfg . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg . . . . .	-	7	7	h	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg . . . . .	-	3	3	h	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg . . . . .	-	4	4	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg . . . . .	-	5	3	339	10 107	255	479	6 308	26 747	26 382	51 543	D
335932	Noncurrent-carrying wiring device mfg . . . . .	-	4	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	111	44	23 497	1 114 985	15 242	31 261	650 212	4 205 652	8 122 814	12 122 063	141 227
3361	Motor vehicle mfg . . . . .	-	8	2	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg . . . . .	-	7	2	i	D	D	D	D	D	D	D	D
336111	Automobile mfg . . . . .	-	4	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg . . . . .	-	3	1	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg . . . . .	-	21	9	1 039	27 026	827	1 759	18 667	72 673	109 772	185 108	D
33621	Motor vehicle body & trailer mfg . . . . .	-	21	9	1 039	27 026	827	1 759	18 667	72 673	109 772	185 108	D
336211	Motor vehicle body mfg . . . . .	-	12	5	708	20 358	583	1 346	14 214	61 267	86 135	148 927	D
3363	Motor vehicle parts mfg . . . . .	-	57	23	3 139	80 788	2 249	4 299	50 354	180 709	291 508	490 141	15 705
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	2	14	6	594	14 175	483	888	9 786	37 885	32 941	71 671	D
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	1	12	5	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg . . . . .	-	5	2	315	10 809	154	260	3 284	S	S	21 612	1 061
336350	Motor vehicle transmission & power train parts mfg . . . . .	-	5	2	315	10 809	154	260	3 284	S	S	21 612	1 061
33636	Motor vehicle seating & interior trim mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping . . . . .	-	5	4	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping . . . . .	-	5	4	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>ATLANTA, GA MSA— Con. Manufacturing— Con.</b>												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33639	Other motor vehicle parts mfg .....	-	16	6	604	15 182	460	905	9 472	51 598	28 684	80 376	3 674
336399	All other motor vehicle parts mfg .....	-	15	6	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	16	5	j	D	D	D	D	D	D	D	26 955
33641	Aerospace product & parts mfg .....	-	16	5	j	D	D	D	D	D	D	D	26 955
336411	Aircraft mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	6	4	g	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	1	322	59	6 443	171 478	5 083	10 253	119 488	470 531	348 225	824 179	13 672
3371	Household & institutional furniture & kitchen cabinet mfg .....	2	209	23	2 328	51 294	1 913	3 466	37 752	115 607	103 971	223 308	3 560
33711	Wood kitchen cabinet & counter top mfg .....	3	146	10	1 067	23 888	882	1 580	17 549	38 170	27 830	66 139	1 824
337110	Wood kitchen cabinet & counter top mfg ...	3	146	10	1 067	23 888	882	1 580	17 549	38 170	27 830	66 139	1 824
33712	Household & institutional furniture mfg .....	1	63	13	1 261	27 406	1 031	1 886	20 203	77 437	76 141	157 169	1 736
337122	Nonupholstered wood household furniture mfg .....	1	34	7	530	10 377	417	845	7 282	43 395	54 291	99 953	659
337124	Metal household furniture mfg .....	-	6	1	e	D	D	D	D	D	D	D	468
337127	Institutional furniture mfg .....	2	13	4	379	12 456	321	677	9 143	21 787	10 230	32 124	537
3372	Office furniture (including fixtures) mfg .....	-	94	29	3 372	100 048	2 606	5 470	68 537	293 302	186 263	480 204	8 438
33721	Office furniture (including fixtures) mfg .....	-	94	29	3 372	100 048	2 606	5 470	68 537	293 302	186 263	480 204	8 438
337211	Wood office furniture mfg .....	-	13	4	f	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork & millwork mfg .....	3	25	8	e	D	D	D	D	D	D	D	597
337214	Office furniture (except wood) mfg .....	-	10	5	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg .....	-	46	12	1 704	49 688	1 247	2 549	32 013	107 077	82 848	189 854	4 426
3379	Other furniture related product mfg .....	-	19	7	743	20 136	564	1 317	13 199	61 622	57 991	120 667	1 674
33791	Mattress mfg .....	-	11	5	f	D	D	D	D	D	D	D	D
337910	Mattress mfg .....	-	11	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	1	427	63	8 087	265 482	5 355	10 271	111 996	648 464	469 978	1 174 396	44 001
3391	Medical equipment & supplies mfg .....	1	200	22	4 570	165 642	2 940	5 354	65 220	395 790	282 426	731 275	29 605
33911	Medical equipment & supplies mfg .....	1	200	22	4 570	165 642	2 940	5 354	65 220	395 790	282 426	731 275	29 605
339112	Surgical & medical instrument mfg .....	-	15	4	1 115	55 184	448	825	10 318	178 510	158 161	346 003	3 412
339113	Surgical appliance & supplies mfg .....	1	20	7	998	40 889	529	1 042	10 935	120 739	55 206	174 108	5 425
339115	Ophthalmic goods mfg .....	-	13	5	1 574	45 896	1 300	2 320	29 844	45 834	48 679	139 435	D
339116	Dental laboratories ...	6	139	6	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	2	227	41	3 517	99 840	2 415	4 917	46 776	252 674	187 552	443 121	14 396
33992	Sporting & athletic goods mfg .....	1	24	4	355	14 122	196	367	4 554	50 125	19 439	70 352	5 809
339920	Sporting & athletic goods mfg .....	1	24	4	355	14 122	196	367	4 554	50 125	19 439	70 352	5 809
33994	Office supplies (except paper) mfg .....	2	13	5	583	13 865	486	1 303	6 877	30 619	40 703	74 486	D
339942	Lead pencil & art good mfg .....	3	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>ATLANTA, GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33995	Sign mfg .....	3	104	13	1 214	38 339	732	1 348	16 984	75 127	46 806	121 547	2 717
339950	Sign mfg .....	3	104	13	1 214	38 339	732	1 348	16 984	75 127	46 806	121 547	2 717
33999	All other miscellaneous mfg .....	2	59	14	1 113	27 110	842	1 623	15 565	66 297	50 914	116 918	3 530
339994	Broom, brush, & mop mfg .....	1	6	5	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	3	35	5	499	12 022	389	707	7 103	26 378	17 439	43 748	1 600
	<b>AUGUSTA-AIKEN, GA-SC MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>364</b>	<b>149</b>	<b>41 124</b>	<b>1 560 574</b>	<b>25 542</b>	<b>47 026</b>	<b>817 378</b>	<b>6 561 832</b>	<b>3 797 324</b>	<b>10 336 193</b>	<b>463 785</b>
	Augusta-Aiken, GA-SC MSA (GA Part) .....	-	237	98	19 084	619 348	13 651	26 518	375 719	3 033 447	2 709 616	5 746 519	161 885
	Augusta-Aiken, GA-SC MSA (SC Part) .....	-	127	51	22 040	941 226	11 891	20 508	441 659	3 528 385	1 087 708	4 589 674	301 900
311	Food mfg .....	-	17	8	1 666	51 295	1 377	2 862	30 733	186 058	275 429	462 723	5 375
3116	Meat product mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	4	2	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	-	3	1	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	8	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	8	2	2	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	8	2	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	20	18	5 232	125 075	4 777	7 885	108 452	231 029	556 256	801 161	9 543
3131	Fiber, yarn, & thread mills .....	-	2	2	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	2	2	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	1	11	10	3 311	74 246	3 009	4 951	63 533	160 786	343 469	502 580	D
31321	Broadwoven fabric mills .....	1	8	7	2 917	66 193	2 735	4 466	59 407	139 888	294 153	432 959	3 035
313210	Broadwoven fabric mills .....	1	8	7	2 917	66 193	2 735	4 466	59 407	139 888	294 153	432 959	3 035
31323	Nonwoven fabric mills .....	-	3	3	394	8 053	274	485	4 126	20 898	49 316	69 621	D
313230	Nonwoven fabric mills .....	-	3	3	394	8 053	274	485	4 126	20 898	49 316	69 621	D
3133	Textile & fabric finishing & fabric coating mills .....	-	7	6	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	7	6	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	-	3	2	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills .....	-	4	4	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	14	4	1 145	17 907	851	1 460	10 309	42 735	42 336	86 062	D
3141	Textile furnishings mills .....	-	9	3	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	9	3	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	7	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	2	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg .....	3	8	6	1 339	18 462	1 143	2 016	13 413	40 139	27 106	63 757	D
3152	Cut & sew apparel mfg .....	3	7	6	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg .....	3	3	3	g	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	20	7	766	21 986	590	1 257	15 096	49 267	78 203	124 951	8 182
3211	Sawmills & wood preservation .....	-	7	4	388	12 977	313	746	8 693	24 322	54 333	76 441	4 842
32111	Sawmills & wood preservation .....	-	7	4	388	12 977	313	746	8 693	24 322	54 333	76 441	4 842
321113	Sawmills .....	-	5	3	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg .....	1	11	2	e	D	D	D	D	D	D	D	D

**Table 2. Industry Statistics for Metropolitan Areas: 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)
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<b>31-33</b>	<b>AUGUSTA-AIKEN, GA-SC MSA—Con.</b> <b>Manufacturing—Con.</b>												
322	Paper mfg .....	-	10	9	3 016	159 310	2 418	5 994	122 785	1 100 419	551 800	1 643 833	234 363
3221	Pulp, paper, & paperboard mills .....	-	5	5	2 619	146 335	2 104	5 313	113 832	1 070 240	502 565	1 565 058	D
32212	Paper mills .....	-	3	3	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	2	2	g	D	D	D	D	D	D	D	D
322122	Newsprint mills .....	-	1	1	e	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	-	5	4	397	12 975	314	681	8 953	30 179	49 235	78 775	D
32221	Paperboard container mfg .....	-	4	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
3231	Printing & related support activities.....	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
32311	Printing .....	-	46	7	1 045	27 896	861	1 651	21 453	68 454	50 481	119 533	9 783
323111	Commercial gravure printing.....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	41	26	14 137	751 382	4 845	7 011	279 843	3 419 466	958 402	4 369 849	85 098
3251	Basic chemical mfg .....	-	22	16	12 276	677 795	3 359	3 785	226 972	2 504 495	413 281	2 931 976	39 315
32518	Other basic inorganic chemical mfg .....	-	10	6	11 217	624 966	2 694	2 415	195 353	2 170 028	120 738	2 289 523	11 897
325188	All other basic inorganic chemical mfg .....	-	9	5	j	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	1	6	6	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	1	5	5	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	7	6	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg .....	-	3	3	e	D	D	D	D	D	D	D	7 077
325211	Plastics material & resin mfg .....	-	3	3	e	D	D	D	D	D	D	D	7 077
32522	Artificial & synthetic fibers & filaments mfg ..	-	4	3	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	5	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	5	2	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	16	8	1 003	27 204	833	1 470	19 497	89 523	52 844	139 621	D
3261	Plastics product mfg .....	-	11	7	f	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg .....	-	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	7	4	293	6 041	250	378	4 088	11 993	10 128	20 720	D
326199	All other plastics product mfg .....	1	7	4	293	6 041	250	378	4 088	11 993	10 128	20 720	D
327	Nonmetallic mineral product mfg .....	6	30	7	2 743	90 744	2 056	4 337	62 548	310 131	165 561	475 616	30 725
3271	Clay product & refractory mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
327121	Brick & structural clay tile mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg ..	9	5	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	9	5	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg .....	9	3	1	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg .....	-	20	4	e	D	D	D	D	D	D	D	D

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

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>AUGUSTA-AIKEN, GA-SC MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	1	50	18	1 822	44 408	1 480	3 095	30 505	133 463	92 170	220 215	9 723
3323	Architectural & structural metals mfg .....	3	12	6	277	7 944	201	422	4 806	15 126	18 123	33 431	763
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	4	22	5	e	D	D	D	D	D	D	D	D
33271	Machine shops .....	4	19	5	258	7 213	194	322	4 755	14 746	5 671	20 392	794
332710	Machine shops .....	4	19	5	258	7 213	194	322	4 755	14 746	5 671	20 392	794
3329	Other fabricated metal product mfg .....	—	9	5	1 021	21 343	875	1 926	15 532	78 937	53 133	126 596	6 700
33291	Metal valve mfg .....	—	4	2	e	D	D	D	D	D	D	D	D
332911	Industrial valve mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg .....	—	4	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	13	7	1 215	46 733	799	1 711	22 411	348 923	305 941	643 825	13 398
3335	Metalworking machinery mfg .....	—	5	1	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	—	5	1	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	—	2	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	—	4	3	404	13 848	289	575	7 626	48 089	22 962	70 258	D
33391	Pump & compressor mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	5	2	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	—	2	1	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	—	2	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	18	8	h	D	D	D	D	D	D	D	12 423
3363	Motor vehicle parts mfg ...	—	5	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg .....	—	5	3	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	—	5	3	h	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	—	4	2	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	—	19	6	302	6 676	251	473	4 143	35 601	16 213	51 725	1 496
339	Miscellaneous mfg .....	—	27	3	906	26 744	765	1 452	20 151	42 562	110 028	152 772	D
3391	Medical equipment & supplies mfg .....	—	13	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	13	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	—	3	1	f	D	D	D	D	D	D	D	D
	<b>CHATTANOOGA, TN-GA MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>707</b>	<b>277</b>	<b>44 038</b>	<b>1 265 866</b>	<b>33 390</b>	<b>65 958</b>	<b>801 035</b>	<b>3 395 618</b>	<b>4 098 991</b>	<b>7 470 751</b>	<b>332 375</b>
	Chattanooga, TN—GA MSA (GA Part) .....	2	163	56	9 753	235 937	8 452	16 614	179 525	805 357	980 295	1 764 750	98 458
	Chattanooga, TN—GA MSA (TN Part) .....	—	544	221	34 285	1 029 929	24 938	49 344	621 510	2 590 261	3 118 696	5 706 001	233 917

**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>CHATTANOOGA, TN-GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
311	Food mfg . . . . .	—	33	19	9 794	265 002	6 228	11 208	124 671	617 181	985 395	1 600 457	68 755
3112	Grain & oilseed milling . . . . .	—	5	5	578	17 915	370	643	8 069	28 596	324 328	360 719	D
3113	Sugar & confectionery product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	—	6	3	1 542	25 881	1 397	2 271	20 744	50 739	112 625	158 163	2 045
31161	Animal slaughtering & processing . . . . .	—	6	3	1 542	25 881	1 397	2 271	20 744	50 739	112 625	158 163	2 045
311615	Poultry processing . . . . .	—	3	3	1 509	25 408	1 369	2 239	20 402	49 447	109 267	153 508	1 943
3118	Bakeries & tortilla mfg . . . . .	—	16	6	6 346	175 221	3 744	6 906	79 319	464 748	435 342	899 868	D
31181	Bread & bakery product mfg . . . . .	—	13	3	i	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	—	4	3	i	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg . . . . .	—	3	3	e	D	D	D	D	D	D	D	D
3119	Other food mfg . . . . .	—	3	3	467	12 159	357	755	7 564	28 764	44 230	72 853	D
31191	Snack food mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	4	35	23	6 554	155 658	5 940	12 633	124 905	378 529	506 176	879 008	61 333
3131	Fiber, yarn, & thread mills . . . . .	—	12	10	2 691	60 719	2 528	5 410	55 007	94 225	250 257	347 410	D
31311	Fiber, yarn, & thread mills . . . . .	—	12	10	2 691	60 719	2 528	5 410	55 007	94 225	250 257	347 410	D
313111	Yarn spinning mills . . . . .	—	7	6	g	D	D	D	D	D	D	D	4 073
313112	Yarn texturing, throwing, & twisting mills . . . . .	—	4	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	8	10	5	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	9	6	3	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	9	6	3	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills . . . . .	2	13	8	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills . . . . .	2	12	8	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills . . . . .	2	8	5	1 077	21 918	969	2 036	17 744	43 670	69 610	114 947	4 508
314	Textile product mills . . . . .	—	25	9	1 213	27 936	907	1 994	18 824	97 942	146 038	244 251	D
3141	Textile furnishings mills . . . . .	—	9	4	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills . . . . .	—	6	3	898	21 538	661	1 513	14 821	85 993	134 475	220 477	4 486
314110	Carpet & rug mills . . . . .	—	6	3	898	21 538	661	1 513	14 821	85 993	134 475	220 477	4 486
3149	Other textile product mills . . . . .	3	16	5	e	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	3	26	13	999	15 279	900	1 523	11 839	25 278	25 076	51 821	2 525
3151	Apparel knitting mills . . . . .	6	12	6	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	5	9	5	486	8 243	450	796	6 622	12 661	13 313	27 250	D
315119	Other hosiery & sock mills . . . . .	5	8	5	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	1	11	6	317	4 178	277	400	2 805	7 230	5 464	12 438	D
316	Leather & allied product mfg . . . . .	2	11	6	f	D	D	D	D	D	D	D	562
3169	Other leather & allied product mfg . . . . .	3	8	4	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg . . . . .	3	8	4	e	D	D	D	D	D	D	D	D
316999	All other leather good mfg . . . . .	3	8	4	e	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	2	18	7	e	D	D	D	D	D	D	D	1 904
3219	Other wood product mfg . . . . .	2	15	5	286	5 243	253	432	3 752	12 032	12 784	24 734	D
322	Paper mfg . . . . .	—	21	14	1 645	55 634	1 230	2 680	37 853	157 988	176 987	331 436	24 485
3221	Pulp, paper, & paperboard mills . . . . .	—	4	4	480	22 193	355	829	16 615	70 516	60 388	128 216	9 138
32213	Paperboard mills . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	—	17	10	1 165	33 441	875	1 851	21 238	87 472	116 599	203 220	15 347
32221	Paperboard container mfg . . . . .	—	14	9	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg . . . . .	1	9	5	e	D	D	D	D	D	D	D	D
322212	Folding paperboard box mfg . . . . .	—	3	3	418	12 775	306	745	8 018	29 304	30 851	60 739	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>CHATTANOOGA, TN-GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
323	Printing & related support activities.....	4	85	20	2 175	75 778	1 604	3 565	48 468	144 092	133 270	281 872	15 653
3231	Printing & related support activities.....	4	85	20	2 175	75 778	1 604	3 565	48 468	144 092	133 270	281 872	15 653
32311	Printing .....	5	75	19	2 122	74 027	1 559	3 474	47 149	139 696	131 330	275 550	D
323110	Commercial lithographic printing ..	6	33	10	1 440	57 067	1 072	2 532	36 595	115 933	96 672	211 307	12 791
323113	Commercial screen printing.....	—	20	8	550	13 970	390	778	8 789	16 993	29 623	52 444	1 980
325	Chemical mfg .....	—	40	20	3 099	133 014	2 084	4 650	88 153	415 929	474 683	901 183	D
3251	Basic chemical mfg .....	—	11	5	515	22 901	287	572	11 928	55 977	121 155	180 122	24 223
32519	Other basic organic chemical mfg .....	—	4	3	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	—	4	3	e	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	—	6	6	1 801	80 554	1 386	3 305	61 460	209 622	249 764	468 552	D
32521	Resin & synthetic rubber mfg .....	—	4	4	e	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg ..	—	3	3	e	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
3254	Pharmaceutical & medicine mfg .....	—	4	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	—	4	2	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	—	2	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	—	39	18	1 231	31 686	1 036	2 124	22 137	112 958	128 104	239 384	20 981
3261	Plastics product mfg .....	—	31	16	1 141	29 600	966	1 978	20 648	103 927	115 552	218 219	19 688
32615	Urethane & other foam product (except polystyrene) mfg .....	—	4	4	294	8 221	235	503	5 160	21 540	32 404	54 062	4 354
326150	Urethane & other foam product (except polystyrene) mfg .....	—	4	4	294	8 221	235	503	5 160	21 540	32 404	54 062	4 354
32619	Other plastics product mfg .....	—	18	8	625	13 742	541	1 081	10 234	61 221	57 262	116 982	12 847
326199	All other plastics product mfg .....	—	13	8	f	D	D	D	D	D	D	D	12 796
327	Nonmetallic mineral product mfg .....	—	30	10	g	D	D	D	D	D	D	D	5 819
3271	Clay product & refractory mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg .....	—	16	5	310	10 134	250	533	7 279	45 183	29 038	74 725	1 349
331	Primary metal mfg .....	—	15	10	3 136	99 595	2 686	5 160	68 899	195 577	197 936	391 408	12 642
3315	Foundries .....	—	10	7	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	—	7	6	h	D	D	D	D	D	D	D	10 489
331511	Iron foundries .....	—	6	5	h	D	D	D	D	D	D	D	10 489
332	Fabricated metal product mfg .....	—	138	43	3 538	103 974	2 680	5 056	65 844	251 526	152 840	404 639	12 394
3321	Forging & stamping .....	—	5	4	331	8 374	195	426	4 300	12 746	17 268	29 755	D
33211	Forging & stamping .....	—	5	4	331	8 374	195	426	4 300	12 746	17 268	29 755	D
332114	Custom roll forming ...	—	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg .....	—	28	9	488	15 104	362	716	8 915	38 601	17 457	56 218	D
33231	Plate work & fabricated structural product mfg ..	—	14	4	250	7 313	172	306	3 994	26 703	10 040	36 638	452
3324	Boiler, tank, & shipping container mfg .....	1	8	6	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg .....	—	6	5	312	9 707	229	426	6 514	21 276	24 751	46 080	1 471
332420	Metal tank (heavy gauge) mfg .....	—	6	5	312	9 707	229	426	6 514	21 276	24 751	46 080	1 471
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	59	10	765	20 540	626	870	14 156	47 706	18 392	65 018	2 275
33271	Machine shops .....	2	55	9	704	18 460	579	751	12 695	43 892	15 621	58 437	1 778
332710	Machine shops .....	2	55	9	704	18 460	579	751	12 695	43 892	15 621	58 437	1 778

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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>CHATTANOOGA, TN-GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	—	19	5	1 013	31 666	775	1 531	21 818	89 368	51 081	141 803	2 871
33291	Metal valve mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg...	—	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	—	18	4	e	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	53	24	2 766	103 381	1 951	4 095	60 352	323 465	415 829	736 061	14 893
3331	Agriculture, construction, & mining machinery mfg....	—	7	5	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg.....	—	6	5	1 373	57 141	987	2 211	37 103	241 262	339 487	576 417	10 868
333120	Construction machinery mfg.....	—	6	5	1 373	57 141	987	2 211	37 103	241 262	339 487	576 417	10 868
3332	Industrial machinery mfg..	—	14	9	f	D	D	D	D	D	D	D	988
33329	Other industrial machinery mfg.....	1	11	6	e	D	D	D	D	D	D	D	D
333292	Textile machinery mfg.	—	8	6	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	6	4	269	9 210	167	359	2 998	21 442	23 167	44 569	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg..	—	6	4	269	9 210	167	359	2 998	21 442	23 167	44 569	D
3339	Other general-purpose machinery mfg.....	4	16	4	402	10 858	310	613	7 301	25 128	12 653	37 734	1 035
33399	All other general-purpose machinery mfg.....	5	12	3	e	D	D	D	D	D	D	D	928
333999	All other miscellaneous general-purpose machinery mfg.....	5	8	3	325	8 685	263	519	6 143	19 488	9 955	29 338	D
334	Computer & electronic product mfg.....	3	19	7	649	19 457	360	757	8 179	50 008	40 217	90 048	3 362
3344	Semiconductor & other electronic component mfg.....	6	4	3	325	10 387	238	547	5 689	27 477	15 981	44 190	D
33441	Semiconductor & other electronic component mfg.....	6	4	3	325	10 387	238	547	5 689	27 477	15 981	44 190	D
335	Electrical equipment, appliance, & component mfg.....	—	9	8	2 186	56 173	1 814	3 422	40 431	302 828	257 796	547 872	D
3352	Household appliance mfg..	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg....	—	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	1	4	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	16	8	1 146	27 464	935	1 749	20 505	45 698	256 620	296 029	4 450
3362	Motor vehicle body & trailer mfg.....	—	5	4	880	22 171	715	1 435	16 909	32 139	236 020	261 799	D
33621	Motor vehicle body & trailer mfg.....	—	5	4	880	22 171	715	1 435	16 909	32 139	236 020	261 799	D
336211	Motor vehicle body mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	42	7	843	19 733	656	1 243	13 804	38 559	35 110	73 056	2 368
3371	Household & institutional furniture & kitchen cabinet mfg.....	3	31	3	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg.....	—	8	4	447	12 025	310	630	7 646	22 004	22 449	44 127	1 605
33721	Office furniture (including fixtures) mfg.....	—	8	4	447	12 025	310	630	7 646	22 004	22 449	44 127	1 605
337215	Showcase, partition, shelving, & locker mfg.....	1	5	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	45	9	973	26 878	673	1 053	11 861	70 776	46 410	115 196	3 378
3391	Medical equipment & supplies mfg.....	—	24	3	500	15 073	368	404	4 789	35 140	23 089	58 210	1 358
33911	Medical equipment & supplies mfg.....	—	24	3	500	15 073	368	404	4 789	35 140	23 089	58 210	1 358
339113	Surgical appliance & supplies mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	1	21	6	473	11 805	305	649	7 072	35 636	23 321	56 986	2 020
33995	Sign mfg.....	—	8	3	329	8 331	212	442	4 804	18 940	13 382	32 015	D
339950	Sign mfg.....	—	8	3	329	8 331	212	442	4 804	18 940	13 382	32 015	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>COLUMBUS, GA—AL MSA</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>230</b>	<b>99</b>	<b>19 930</b>	<b>597 036</b>	<b>15 017</b>	<b>32 427</b>	<b>394 338</b>	<b>2 171 632</b>	<b>2 183 278</b>	<b>4 357 805</b>	<b>221 782</b>
	Columbus, GA—AL MSA (AL Part) . . . . .	—	49	19	3 295	107 782	2 757	6 049	80 709	540 642	462 403	1 000 399	89 114
	Columbus, GA—AL MSA (GA Part) . . . . .	1	181	80	16 635	489 254	12 260	26 378	313 629	1 630 990	1 720 875	3 357 406	132 668
311	Food mfg. . . . .	—	17	8	3 464	90 255	2 255	4 423	54 577	446 992	264 829	707 615	15 761
3115	Dairy product mfg. . . . .	—	1	1	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg. . . . .	—	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg. . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3116	Meat product mfg. . . . .	—	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing. . . . .	—	3	2	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. . . . .	—	5	3	2 137	64 801	1 183	2 576	35 850	296 278	120 719	416 729	10 002
31181	Bread & bakery product mfg. . . . .	—	3	1	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg. . . . .	—	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg. . . . .	—	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg. . . . .	—	3	3	399	23 686	209	456	11 049	103 686	203 689	306 817	D
3121	Beverage mfg. . . . .	—	3	3	399	23 686	209	456	11 049	103 686	203 689	306 817	D
31211	Soft drink & ice mfg. . . . .	—	3	3	399	23 686	209	456	11 049	103 686	203 689	306 817	D
312111	Soft drink mfg. . . . .	—	3	3	399	23 686	209	456	11 049	103 686	203 689	306 817	D
313	Textile mills . . . . .	3	12	10	4 321	128 446	3 535	8 215	92 682	252 791	384 688	650 205	32 520
3131	Fiber, yarn, & thread mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
31311	Fiber, yarn, & thread mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
313111	Yarn spinning mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
3132	Fabric mills . . . . .	4	7	6	h	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	4	5	5	h	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	4	5	5	h	D	D	D	D	D	D	D	D
314	Textile product mills. . . . .	—	7	6	1 327	25 086	1 148	2 635	20 579	183 005	194 777	374 961	D
3141	Textile furnishings mills. . . . .	—	5	4	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills . . . . .	—	2	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 . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg. . . . .	—	13	5	564	14 368	494	1 079	10 696	36 311	65 437	101 189	D
3211	Sawmills & wood preservation . . . . .	—	5	4	e	D	D	D	D	D	D	D	2 949
32111	Sawmills & wood preservation . . . . .	—	5	4	e	D	D	D	D	D	D	D	2 949
321113	Sawmills . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
322	Paper mfg. . . . .	—	6	6	1 223	66 421	870	2 022	45 521	311 841	280 322	592 346	D
3221	Pulp, paper, & paperboard mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg. . . . .	3	5	5	e	D	D	D	D	D	D	D	3 802
32222	Paper bag & coated & treated paper mfg. . . . .	6	3	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities. . . . .	5	27	3	398	11 705	293	545	7 292	25 124	16 058	41 248	2 398
3231	Printing & related support activities. . . . .	5	27	3	398	11 705	293	545	7 292	25 124	16 058	41 248	2 398
32311	Printing . . . . .	5	25	3	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	6	11	2	298	9 709	219	432	5 990	20 758	12 920	33 743	1 903
327	Nonmetallic mineral product mfg. . . . .	—	16	6	424	10 842	327	628	6 605	47 477	29 158	76 789	D
331	Primary metal mfg. . . . .	—	7	6	1 061	32 868	866	2 078	24 641	103 549	61 030	162 783	8 551
3315	Foundries . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
331511	Iron foundries . . . . .	—	5	4	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>COLUMBUS, GA—AL MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	1	32	13	1 218	32 570	871	1 535	18 937	80 013	91 101	170 302	2 825
3322	Cutlery & handtool mfg ....	—	3	3	312	8 092	208	309	3 549	16 612	22 763	39 012	D
33221	Cutlery & handtool mfg ..	—	3	3	312	8 092	208	309	3 549	16 612	22 763	39 012	D
332212	Hand & edge tool mfg .	—	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg .....	3	13	5	315	9 294	215	407	5 173	21 796	25 470	47 104	1 128
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	11	3	322	8 045	217	339	4 657	27 612	27 958	53 993	610
33271	Machine shops .....	—	11	3	322	8 045	217	339	4 657	27 612	27 958	53 993	610
332710	Machine shops .....	—	11	3	322	8 045	217	339	4 657	27 612	27 958	53 993	610
333	Machinery mfg .....	2	12	7	1 072	32 866	807	1 769	21 975	58 904	130 623	204 224	19 649
3332	Industrial machinery mfg ..	3	4	3	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	3	3	3	f	D	D	D	D	D	D	D	D
333293	Printing machinery & equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	—	3	3	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	3	3	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refriger equip mfg .....	—	3	3	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	6	5	2 468	67 837	1 968	4 446	46 753	345 688	253 799	587 683	16 476
3352	Household appliance mfg ..	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg ....	—	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	8	5	1 110	38 052	727	1 433	20 157	85 857	96 210	180 429	D
3364	Aerospace product & parts mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	—	2	2	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>MACON, GA MSA</b>												
	<b>Manufacturing ....</b>	—	<b>292</b>	<b>93</b>	<b>18 617</b>	<b>688 435</b>	<b>14 456</b>	<b>29 531</b>	<b>471 439</b>	<b>4 543 823</b>	<b>2 470 838</b>	<b>7 022 117</b>	<b>329 162</b>
311	Food mfg .....	—	27	10	2 941	83 832	2 384	4 983	54 221	406 342	420 344	834 721	21 076
3116	Meat product mfg .....	9	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	9	3	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg ....	1	11	3	f	D	D	D	D	D	D	D	2 428
31182	Cookie, cracker, & pasta mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	—	3	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	—	3	1	f	D	D	D	D	D	D	D	D
31191	Snack food mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg .	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	—	2	1	h	D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
31222	Tobacco product mfg ...	—	1	1	h	D	D	D	D	D	D	D	D
312221	Cigarette mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
313	Textile mills .....	—	4	3	266	8 670	165	409	5 926	33 958	63 499	94 881	D
314	Textile product mills .....	—	10	5	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ....	—	6	3	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	—	6	3	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	—	3	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>MACON, GA MSA— Con.  Manufacturing— Con.</b>												
321	Wood product mfg . . . . .	-	16	4	f	D	D	D	D	D	D	D	D
3211	Sawmills & wood preservation . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
32111	Sawmills & wood preservation . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
321113	Sawmills . . . . .	-	2	1	e	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	-	9	8	1 459	56 565	1 230	2 396	44 792	156 081	259 575	420 857	D
3221	Pulp, paper, & paperboard mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	1	8	7	f	D	D	D	D	D	D	D	51 150
32229	Other converted paper product mfg . . . . .	2	3	3	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg . . . . .	9	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	3	32	4	e	D	D	D	D	D	D	D	1 113
3231	Printing & related support activities . . . . .	3	32	4	e	D	D	D	D	D	D	D	1 113
32311	Printing . . . . .	4	31	3	e	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	3	14	6	509	17 363	258	474	5 726	91 620	56 259	147 064	5 197
3259	Other chemical product mfg . . . . .	1	4	4	357	13 365	174	334	3 634	72 323	34 815	106 086	3 614
326	Plastics & rubber products mfg . . . . .	-	19	9	605	13 891	508	1 106	10 648	35 761	62 822	97 333	883
3261	Plastics product mfg . . . . .	-	13	6	488	11 383	428	945	9 264	29 654	54 195	82 922	583
32619	Other plastics product mfg . . . . .	1	8	4	362	8 435	323	717	6 868	21 579	24 288	45 582	367
326199	All other plastics product mfg . . . . .	-	6	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	1	23	10	1 645	68 520	1 305	2 761	52 910	198 090	145 258	345 578	42 030
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
327213	Glass container mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg . . . . .	2	14	4	364	13 070	295	587	8 526	50 110	35 058	85 070	8 150
3279	Other nonmetallic mineral product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	2	40	12	f	D	D	D	D	D	D	D	2 478
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	2	23	4	317	11 055	234	431	6 431	19 213	8 299	27 756	1 217
33271	Machine shops . . . . .	2	23	4	317	11 055	234	431	6 431	19 213	8 299	27 756	1 217
332710	Machine shops . . . . .	2	23	4	317	11 055	234	431	6 431	19 213	8 299	27 756	1 217
333	Machinery mfg . . . . .	-	12	3	515	12 967	404	871	8 353	43 829	41 359	84 228	1 203
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
333415	AC & warm air heating & commercial/ industrial refrig equip mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	11	7	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg . . . . .	-	2	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>MACON, GA MSA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	-	25	3	f	D	D	D	D	D	D	D	440
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	20	2	e	D	D	D	D	D	D	D	202
33712	Household & institutional furniture mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
337129	Wood television, radio, & sewing machine cabinet mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	27	3	1 423	45 017	1 010	2 867	26 697	100 969	69 389	167 954	D
3399	Other miscellaneous mfg ..	-	11	3	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
339993	Fastener, button, needle, & pin mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>SAVANNAH, GA MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>227</b>	<b>65</b>	<b>14 606</b>	<b>608 602</b>	<b>10 380</b>	<b>18 128</b>	<b>397 248</b>	<b>1 769 025</b>	<b>3 521 812</b>	<b>5 325 814</b>	<b>201 723</b>
311	Food mfg .....	-	24	9	1 696	51 467	1 012	2 181	28 121	215 645	689 326	908 678	5 456
3113	Sugar & confectionery product mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
31131	Sugar mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining ...	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	9	2	f	D	D	D	D	D	D	D	929
31181	Bread & bakery product mfg .....	-	8	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	17	5	591	15 505	508	1 130	12 153	46 113	119 002	165 338	2 589
3211	Sawmills & wood preservation .....	1	8	4	e	D	D	D	D	D	D	D	2 261
32111	Sawmills & wood preservation .....	1	8	4	e	D	D	D	D	D	D	D	2 261
3212	Veneer, plywood, & engineered wood product mfg .....	-	1	1	e	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
321211	Hardwood veneer & plywood mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	8	5	3 284	166 590	2 581	5 909	126 903	458 816	524 348	964 032	131 104
3221	Pulp, paper, & paperboard mills .....	-	3	3	3 112	161 310	2 451	5 650	123 530	448 395	501 346	930 682	130 669
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
32213	Paperboard mills .....	-	2	2	g	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	2	2	g	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg .....	-	6	3	295	12 588	227	593	9 163	87 189	184 164	272 502	5 507
3241	Petroleum & coal products mfg .....	-	6	3	295	12 588	227	593	9 163	87 189	184 164	272 502	5 507
325	Chemical mfg .....	-	17	9	1 619	64 475	996	2 214	34 401	233 153	398 103	645 244	24 790
3251	Basic chemical mfg .....	-	7	5	1 025	41 240	642	1 442	23 204	147 128	241 946	406 608	18 366
32513	Dye & pigment mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	9	3	1	e	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ...	9	2	1	e	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg .	9	2	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	18	7	527	17 244	405	923	11 816	75 841	53 015	128 378	6 071
3273	Cement & concrete product mfg .....	1	14	5	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	31	8	e	D	D	D	D	D	D	D	2 121
333	Machinery mfg .....	-	11	5	412	12 525	307	543	7 267	48 800	25 678	75 058	2 644
3332	Industrial machinery mfg ..	-	6	2	286	8 086	226	383	5 605	40 065	19 112	59 426	2 548
33329	Other industrial machinery mfg .....	-	6	2	286	8 086	226	383	5 605	40 065	19 112	59 426	2 548

**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>SAVANNAH, GA MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg.....	-	11	3	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
336212	Truck trailer mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
336411	Aircraft mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
3366	Ship & boat building.....	9	4	1	e	D	D	D	D	D	D	D	D
33661	Ship & boat building.....	9	4	1	e	D	D	D	D	D	D	D	D
336611	Ship building & repairing.....	9	3	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	20	2	294	7 079	130	209	2 453	33 116	31 494	64 646	1 153

<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>APPLING COUNTY, GA</b>												
	<b>Manufacturing.....</b>	-	25	14	1 160	28 705	857	1 817	17 890	103 154	334 809	432 857	7 675
	<b>ATKINSON COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing.....</b>	-	13	4	1 081	24 086	967	1 991	19 020	44 829	78 516	123 808	D
314	Textile product mills.....	-	4	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills...	-	4	3	f	D	D	D	D	D	D	D	D
31491	Textile bag & canvas mills.....	-	4	3	f	D	D	D	D	D	D	D	D
314911	Textile bag mills.....	-	3	3	f	D	D	D	D	D	D	D	D
	<b>BACON COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing.....</b>	-	14	7	1 373	27 842	1 109	2 126	21 893	64 468	145 127	210 857	1 984

**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>BALDWIN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>20</b>	<b>8</b>	<b>3 454</b>	<b>91 219</b>	<b>3 098</b>	<b>6 137</b>	<b>78 162</b>	<b>172 919</b>	<b>421 206</b>	<b>624 869</b>	<b>6 823</b>
313	Textile mills .....	-	5	4	1 568	33 375	1 466	2 970	29 430	32 029	107 164	160 788	1 143
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
313111	Yarn spinning mills ....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	1	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	1	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
336411	Aircraft mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BANKS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>4</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>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>BARROW COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>64</b>	<b>11</b>	<b>2 217</b>	<b>64 047</b>	<b>1 801</b>	<b>3 648</b>	<b>45 200</b>	<b>185 543</b>	<b>326 899</b>	<b>509 871</b>	<b>21 936</b>
336	Transportation equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BARTOW COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>126</b>	<b>59</b>	<b>10 115</b>	<b>303 066</b>	<b>8 231</b>	<b>17 526</b>	<b>226 147</b>	<b>1 387 632</b>	<b>1 526 973</b>	<b>2 918 411</b>	<b>116 161</b>
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 .....	-	10	7	862	19 988	668	1 310	14 463	69 665	57 666	128 013	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
314	Textile product mills .....	-	14	9	2 689	73 159	2 412	5 850	60 514	230 572	393 627	622 833	11 260
3141	Textile furnishings mills ....	-	11	7	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	10	7	g	D	D	D	D	D	D	D	D
314110	Carpet & rug mills ....	-	10	7	g	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	-	3	2	g	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	3	2	g	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	7	5	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	7	5	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	10	6	891	41 416	609	1 233	22 153	254 675	221 783	481 563	10 241
326	Plastics & rubber products mfg .....	-	11	9	1 306	36 041	1 127	2 235	27 954	154 114	136 043	291 660	20 601
3261	Plastics product mfg .....	-	9	9	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	3	3	721	22 777	628	1 254	18 524	112 611	83 760	198 348	D
326111	Unsupported plastics bag mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	12	6	799	22 799	619	1 224	17 380	50 035	62 600	112 105	3 623
3329	Other fabricated metal product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D

**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>BARTOW COUNTY, GA</b>														
<b>—Con.</b>														
<b>31-33</b>	<b>Manufacturing—Con.</b>													
336	Transportation equipment mfg .....	—	5	3	g	D	D	D	D	D	D	D	D	
3365	Railroad rolling stock mfg ..	—	1	1	f	D	D	D	D	D	D	D	D	
33651	Railroad rolling stock mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
336510	Railroad rolling stock mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
<b>BEN HILL COUNTY, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>34</b>	<b>21</b>		<b>3 621</b>	<b>93 609</b>	<b>3 195</b>	<b>5 849</b>	<b>73 022</b>	<b>260 338</b>	<b>379 221</b>	<b>641 529</b>	<b>7 785</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 ...	—	1	1	f	D	D	D	D	D	D	D	D	
321	Wood product mfg .....	4	5	5		1 036	23 917	897	1 671	18 078	48 565	114 056	165 325	2 441
3219	Other wood product mfg ...	7	3	3	f	D	D	D	D	D	D	D	D	
32199	All other wood product mfg .....	7	2	2	f	D	D	D	D	D	D	D	D	
321991	Manufactured home (mobile home) mfg ..	7	2	2	f	D	D	D	D	D	D	D	D	
<b>BERRIEN COUNTY, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>17</b>	<b>8</b>		<b>1 987</b>	<b>45 031</b>	<b>1 740</b>	<b>3 799</b>	<b>37 726</b>	<b>93 105</b>	<b>134 139</b>	<b>231 644</b>	<b>2 345</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	
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	
336	Transportation equipment mfg .....	—	2	1	f	D	D	D	D	D	D	D	D	
3366	Ship & boat building .....	—	1	1	f	D	D	D	D	D	D	D	D	
33661	Ship & boat building .....	—	1	1	f	D	D	D	D	D	D	D	D	
336612	Boat building .....	—	1	1	f	D	D	D	D	D	D	D	D	
<b>BIBB COUNTY, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>179</b>	<b>61</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>D</b>	<b>238 106</b>
311	Food mfg .....	1	22	8	g	D	D	D	D	D	D	D	D	
3116	Meat product mfg .....	9	3	1	f	D	D	D	D	D	D	D	D	
31161	Animal slaughtering & processing .....	9	3	1	f	D	D	D	D	D	D	D	D	
311615	Poultry processing .....	9	1	1	f	D	D	D	D	D	D	D	D	
3118	Bakeries & tortilla mfg .....	1	10	3	f	D	D	D	D	D	D	D	D	
31182	Cookie, cracker, & pasta mfg .....	—	3	2	f	D	D	D	D	D	D	D	D	
311821	Cookie & cracker mfg .	—	3	2	f	D	D	D	D	D	D	D	D	
312	Beverage & tobacco product mfg .....	—	2	1	h	D	D	D	D	D	D	D	D	
3122	Tobacco mfg .....	—	1	1	h	D	D	D	D	D	D	D	D	
31222	Tobacco product mfg ...	—	1	1	h	D	D	D	D	D	D	D	D	
312221	Cigarette mfg .....	—	1	1	h	D	D	D	D	D	D	D	D	
322	Paper mfg .....	—	8	7	g	D	D	D	D	D	D	D	D	
3221	Pulp, paper, & paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D	
32213	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D	
322130	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D	
3222	Converted paper product mfg .....	1	7	6	f	D	D	D	D	D	D	D	D	
32229	Other converted paper product mfg .....	2	3	3	f	D	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg .....	2	12	6	f	D	D	D	D	D	D	D	D	
3279	Other nonmetallic mineral product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	
32799	All other nonmetallic mineral product mfg ...	—	2	2	f	D	D	D	D	D	D	D	D	
327993	Mineral wool mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg .....	2	31	10	f	D	D	D	D	D	D	D	2 176	

**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>BIBB COUNTY, GA— Con. Manufacturing— Con.</b>												
336	Transportation equipment mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	15	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	6	2	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
339993	Fastener, button, needle, & pin mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>BLECKLEY COUNTY, GA Manufacturing ....</b>	-	<b>6</b>	<b>2</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>
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
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>BROOKS COUNTY, GA Manufacturing ....</b>	-	<b>12</b>	<b>9</b>	<b>1 077</b>	<b>17 407</b>	<b>942</b>	<b>1 631</b>	<b>11 295</b>	<b>47 751</b>	<b>59 271</b>	<b>106 257</b>	<b>1 648</b>
315	Apparel mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	3	3	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>BULLOCH COUNTY, GA Manufacturing ....</b>	-	<b>41</b>	<b>15</b>	<b>3 210</b>	<b>84 290</b>	<b>2 683</b>	<b>5 237</b>	<b>59 088</b>	<b>276 751</b>	<b>208 348</b>	<b>493 353</b>	<b>20 559</b>
332	Fabricated metal product mfg .....	-	10	3	1 060	31 406	921	1 957	25 075	111 371	54 263	167 206	3 955
3329	Other fabricated metal product mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	4	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>BURKE COUNTY, GA Manufacturing ....</b>	3	<b>16</b>	<b>8</b>	<b>1 035</b>	<b>21 316</b>	<b>587</b>	<b>1 247</b>	<b>11 749</b>	<b>49 241</b>	<b>33 372</b>	<b>84 416</b>	<b>3 449</b>
<b>31-33</b>	<b>BUTTS COUNTY, GA Manufacturing ....</b>	-	<b>18</b>	<b>10</b>	<b>1 127</b>	<b>22 277</b>	<b>964</b>	<b>1 889</b>	<b>16 683</b>	<b>105 196</b>	<b>75 492</b>	<b>181 396</b>	<b>3 151</b>
<b>31-33</b>	<b>CALHOUN COUNTY, GA Manufacturing ....</b>	8	<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>D</b>
315	Apparel mfg .....	8	2	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	8	2	2	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	9	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>CAMDEN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>21</b>	<b>7</b>	<b>1 364</b>	<b>52 737</b>	<b>1 039</b>	<b>2 343</b>	<b>36 289</b>	<b>237 461</b>	<b>292 244</b>	<b>528 823</b>	<b>D</b>
322	Paper mfg . . . . .	-	4	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>CARROLL COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>121</b>	<b>54</b>	<b>9 590</b>	<b>229 641</b>	<b>7 860</b>	<b>15 460</b>	<b>175 038</b>	<b>663 831</b>	<b>1 503 769</b>	<b>2 156 699</b>	<b>62 734</b>
311	Food mfg . . . . .	-	4	3	1 298	27 112	985	1 786	18 767	150 605	159 794	310 325	D
3116	Meat product mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	-	13	11	g	D	D	D	D	D	D	D	612
3151	Apparel knitting mills . . . . .	-	6	5	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills . . . . .	-	5	5	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	-	6	5	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors . . . . .	-	3	3	g	D	D	D	D	D	D	D	303
315211	Men's & boys' cut & sew apparel contractors . . . . .	-	3	3	g	D	D	D	D	D	D	D	303
326	Plastics & rubber products mfg . . . . .	-	6	5	994	23 704	895	1 923	19 606	86 481	105 971	193 457	8 341
3261	Plastics product mfg . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	-	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
33592	Communication & energy wire & cable mfg . . . . .	-	3	3	g	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
<b>CATOOSA COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>64</b>	<b>22</b>	<b>2 291</b>	<b>56 203</b>	<b>1 813</b>	<b>3 683</b>	<b>40 527</b>	<b>182 336</b>	<b>277 869</b>	<b>458 520</b>	<b>24 891</b>
314	Textile product mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
<b>CHATHAM COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>207</b>	<b>58</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>D</b>
311	Food mfg . . . . .	-	24	9	1 696	51 467	1 012	2 181	28 121	215 645	689 326	908 678	5 456
3113	Sugar & confectionery product mfg . . . . .	-	5	3	f	D	D	D	D	D	D	D	D
31131	Sugar mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	-	9	2	f	D	D	D	D	D	D	D	929
31181	Bread & bakery product mfg . . . . .	-	8	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	-	6	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	-	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>CHATHAM COUNTY, GA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg . . . . .	—	16	9	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg . . . . .	—	7	5	1 025	41 240	642	1 442	23 204	147 128	241 946	406 608	18 366
32513	Dye & pigment mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	16	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	11	3	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
336212	Truck trailer mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	1	1	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	—	1	1	h	D	D	D	D	D	D	D	D
336411	Aircraft mfg . . . . .	—	1	1	h	D	D	D	D	D	D	D	D
<b>CHATTOOGA COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>23</b>	<b>15</b>	<b>3 996</b>	<b>90 967</b>	<b>3 568</b>	<b>8 163</b>	<b>75 856</b>	<b>464 675</b>	<b>414 170</b>	<b>873 611</b>	<b>34 431</b>
313	Textile mills . . . . .	—	3	3	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 . . . . .	—	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
<b>CHEROKEE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>1</b>	<b>152</b>	<b>35</b>	<b>3 886</b>	<b>100 486</b>	<b>2 971</b>	<b>5 882</b>	<b>60 332</b>	<b>247 360</b>	<b>414 860</b>	<b>656 717</b>	<b>18 229</b>
311	Food mfg . . . . .	—	5	2	905	19 873	808	1 890	14 818	37 565	156 401	190 091	2 940
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
326	Plastics & rubber products mfg . . . . .	—	10	4	539	14 703	465	970	8 402	32 979	49 687	80 525	3 797
3261	Plastics product mfg . . . . .	—	10	4	539	14 703	465	970	8 402	32 979	49 687	80 525	3 797
332	Fabricated metal product mfg . . . . .	2	25	5	684	19 997	482	1 111	14 268	36 527	54 586	90 315	2 589
<b>CLARKE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>90</b>	<b>34</b>	<b>9 388</b>	<b>234 924</b>	<b>7 520</b>	<b>15 658</b>	<b>168 504</b>	<b>577 408</b>	<b>793 936</b>	<b>1 368 469</b>	<b>94 765</b>
311	Food mfg . . . . .	—	6	2	h	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	—	2	2	h	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	—	6	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	13	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	—	6	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>CLARKE COUNTY, GA</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—</b>												
	<b>Con.</b>												
334	Computer & electronic product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
334518	Watch, clock, & part mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	3	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CLAYTON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>167</b>	<b>59</b>	<b>5 901</b>	<b>184 128</b>	<b>4 216</b>	<b>8 272</b>	<b>109 803</b>	<b>789 287</b>	<b>853 943</b>	<b>1 641 582</b>	<b>37 971</b>
311	Food mfg.....	-	12	8	779	18 674	582	1 047	12 848	77 541	84 015	161 749	D
3118	Bakeries & tortilla mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	12	5	633	23 617	439	906	13 289	372 675	296 851	668 427	11 784
326	Plastics & rubber products mfg.....	-	16	8	701	20 665	574	937	10 617	92 319	71 047	160 865	5 552
3261	Plastics product mfg.....	-	11	7	660	19 001	537	862	9 138	89 820	68 384	155 697	D
327	Nonmetallic mineral product mfg.....	-	10	9	599	18 972	391	816	11 106	38 417	29 600	66 669	2 385
332	Fabricated metal product mfg.....	-	21	5	719	26 021	501	1 065	17 011	42 659	113 998	156 599	2 409
3323	Architectural & structural metals mfg.....	-	9	4	f	D	D	D	D	D	D	D	1 882
33232	Ornamental & architectural metal products mfg.....	-	7	4	557	18 446	382	831	10 709	18 061	73 564	90 265	D
336	Transportation equipment mfg.....	-	9	4	709	17 010	462	962	9 994	45 631	152 034	204 874	1 865
3363	Motor vehicle parts mfg ...	-	7	3	f	D	D	D	D	D	D	D	D
<b>CLINCH COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>11</b>	<b>5</b>	<b>918</b>	<b>18 828</b>	<b>834</b>	<b>1 799</b>	<b>15 481</b>	<b>49 746</b>	<b>101 589</b>	<b>148 897</b>	<b>4 730</b>
332	Fabricated metal product mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332431	Metal can mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>COBB COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>604</b>	<b>160</b>	<b>24 499</b>	<b>980 153</b>	<b>14 336</b>	<b>28 444</b>	<b>437 689</b>	<b>2 146 596</b>	<b>2 222 328</b>	<b>4 134 656</b>	<b>110 741</b>
311	Food mfg.....	1	22	7	1 547	40 426	1 198	2 614	23 886	102 416	140 470	242 261	18 312
3119	Other food mfg.....	3	5	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	1	16	9	786	22 039	688	1 609	17 012	35 614	63 571	99 322	1 248
3219	Other wood product mfg... ..	-	13	6	577	16 393	509	1 179	12 812	24 424	51 348	75 900	D
32191	Millwork.....	-	11	6	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	20	14	1 739	59 935	1 358	3 093	44 635	184 784	200 553	376 948	16 409
3222	Converted paper product mfg.....	-	18	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	12	8	504	17 550	365	711	10 891	44 816	56 525	101 303	1 820
323	Printing & related support activities.....	1	141	26	1 914	66 462	1 390	2 625	40 424	151 366	66 992	217 781	7 789
3231	Printing & related support activities.....	1	141	26	1 914	66 462	1 390	2 625	40 424	151 366	66 992	217 781	7 789
32311	Printing.....	1	126	20	1 583	50 924	1 121	2 055	30 178	102 957	57 199	159 696	D
323110	Commercial lithographic printing ..	1	58	13	927	33 599	620	1 217	18 624	65 110	29 723	94 394	2 665

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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>COBB COUNTY, GA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg . . . . .	2	35	13	1 160	45 583	624	1 327	19 022	116 975	154 680	271 743	11 025
326	Plastics & rubber products mfg . . . . .	1	22	5	616	15 857	523	1 021	11 831	43 311	38 504	81 336	D
3261	Plastics product mfg . . . . .	1	19	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	1	24	13	727	19 496	583	1 164	14 294	69 662	68 961	139 142	2 418
332	Fabricated metal product mfg . . . . .	1	67	22	1 169	36 705	803	1 587	19 560	87 367	81 558	169 496	5 050
333	Machinery mfg . . . . .	2	39	12	1 191	44 740	651	1 286	19 726	102 756	100 200	182 368	3 324
334	Computer & electronic product mfg . . . . .	1	29	7	814	34 534	351	671	10 695	119 277	71 973	199 108	7 708
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	—	9	4	f	D	D	D	D	D	D	D	5 877
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	—	9	4	f	D	D	D	D	D	D	D	5 877
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	11	4	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	1	1	i	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	—	1	1	i	D	D	D	D	D	D	D	D
336411	Aircraft mfg . . . . .	—	1	1	i	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	2	78	9	1 148	37 132	782	1 475	14 597	93 020	42 419	134 637	5 252
3391	Medical equipment & supplies mfg . . . . .	1	38	4	718	25 169	470	929	7 638	70 000	20 897	89 590	3 674
33911	Medical equipment & supplies mfg . . . . .	1	38	4	718	25 169	470	929	7 638	70 000	20 897	89 590	3 674
	<b>COFFEE COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>45</b>	<b>22</b>	<b>5 377</b>	<b>116 057</b>	<b>4 667</b>	<b>7 952</b>	<b>86 613</b>	<b>294 801</b>	<b>482 476</b>	<b>773 782</b>	<b>22 367</b>
311	Food mfg . . . . .	—	6	2	g	D	D	D	D	D	D	D	1 670
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
321	Wood product mfg . . . . .	—	9	5	g	D	D	D	D	D	D	D	2 296
3219	Other wood product mfg . . . . .	—	8	5	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg . . . . .	—	6	5	g	D	D	D	D	D	D	D	2 234
321991	Manufactured home (mobile home) mfg . . . . .	—	5	5	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	8	4	625	14 992	537	1 107	10 933	48 235	68 653	115 603	1 884
336	Transportation equipment mfg . . . . .	—	6	4	924	21 353	764	1 459	13 494	64 705	38 280	100 854	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
	<b>COLQUITT COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>1</b>	<b>55</b>	<b>18</b>	<b>3 503</b>	<b>67 076</b>	<b>2 577</b>	<b>4 817</b>	<b>42 483</b>	<b>151 011</b>	<b>302 593</b>	<b>452 223</b>	<b>16 989</b>
315	Apparel mfg . . . . .	8	6	4	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	8	5	4	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg . . . . .	8	4	3	g	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg . . . . .	8	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	—	8	4	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg . . . . .	—	5	3	g	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

**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>COLUMBIA COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>77</b>	<b>24</b>	<b>5 323</b>	<b>154 317</b>	<b>3 690</b>	<b>6 879</b>	<b>84 256</b>	<b>683 266</b>	<b>684 018</b>	<b>1 356 074</b>	<b>40 121</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
31522	Men's & boys' cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	-	14	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	-	14	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	14	2	f	D	D	D	D	D	D	D	D
323111	Commercial gravure printing .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	7	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
<b>COOK COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>35</b>	<b>15</b>	<b>1 582</b>	<b>34 115</b>	<b>1 313</b>	<b>2 453</b>	<b>23 615</b>	<b>100 264</b>	<b>130 439</b>	<b>227 358</b>	<b>12 237</b>
321	Wood product mfg .....	-	9	5	911	19 240	787	1 518	13 683	67 617	83 732	148 428	8 901
3219	Other wood product mfg ...	-	7	3	f	D	D	D	D	D	D	D	D
<b>COWETA COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>76</b>	<b>30</b>	<b>5 589</b>	<b>147 764</b>	<b>4 120</b>	<b>8 196</b>	<b>94 690</b>	<b>389 771</b>	<b>706 621</b>	<b>1 093 191</b>	<b>46 348</b>
313	Textile mills .....	-	5	4	f	D	D	D	D	D	D	D	D
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
31523	Women's & girls' cut & sew apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	8	4	694	15 173	465	946	9 364	31 256	46 891	77 276	4 076
3261	Plastics product mfg .....	-	8	4	694	15 173	465	946	9 364	31 256	46 891	77 276	4 076
331	Primary metal mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	6	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CRISP COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>27</b>	<b>14</b>	<b>2 067</b>	<b>53 141</b>	<b>1 714</b>	<b>3 433</b>	<b>35 132</b>	<b>185 601</b>	<b>155 668</b>	<b>340 458</b>	<b>10 153</b>
321	Wood product mfg .....	-	3	3	523	13 481	457	889	9 059	38 500	52 378	91 608	D
333	Machinery mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>DADE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>22</b>	<b>9</b>	<b>907</b>	<b>19 862</b>	<b>819</b>	<b>1 450</b>	<b>16 146</b>	<b>47 169</b>	<b>51 881</b>	<b>98 544</b>	<b>4 571</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>DECATUR COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>35</b>	<b>12</b>	<b>3 538</b>	<b>84 166</b>	<b>2 833</b>	<b>5 987</b>	<b>57 296</b>	<b>292 258</b>	<b>336 584</b>	<b>632 834</b>	<b>25 435</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
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	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
<b>DEKALB COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>697</b>	<b>204</b>	<b>24 358</b>	<b>942 810</b>	<b>17 939</b>	<b>38 444</b>	<b>627 888</b>	<b>2 718 358</b>	<b>5 320 006</b>	<b>8 018 525</b>	<b>159 864</b>
311	Food mfg .....	1	55	21	3 278	110 958	2 144	4 341	59 447	434 780	353 001	783 993	21 480
3118	Bakeries & tortilla mfg .....	3	35	9	1 666	53 856	938	1 840	29 048	125 954	104 339	231 065	9 763
31181	Bread & bakery product mfg .....	4	27	7	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	11	4	1 011	30 525	433	819	12 734	45 371	33 749	78 935	3 670
3119	Other food mfg .....	-	8	7	940	37 618	698	1 457	17 873	182 667	169 292	352 272	10 214
322	Paper mfg .....	-	21	16	1 677	59 177	1 346	2 936	41 736	148 152	239 644	386 405	7 438
3222	Converted paper product mfg .....	-	21	16	1 677	59 177	1 346	2 936	41 736	148 152	239 644	386 405	7 438
32221	Paperboard container mfg .....	-	11	11	1 264	46 332	1 028	2 272	33 329	108 871	188 955	296 047	5 405
322211	Corrugated & solid fiber box mfg .....	-	7	7	726	27 606	571	1 268	18 473	64 209	116 729	180 271	3 253
323	Printing & related support activities .....	1	172	27	3 290	109 551	2 242	4 448	65 422	224 205	179 189	401 465	15 931
3231	Printing & related support activities .....	1	172	27	3 290	109 551	2 242	4 448	65 422	224 205	179 189	401 465	15 931
32311	Printing .....	1	148	24	2 855	97 904	2 034	4 071	60 709	209 291	175 663	383 056	14 999
323110	Commercial lithographic printing ..	1	76	14	1 895	73 364	1 342	2 681	44 816	129 804	101 927	230 575	6 561
325	Chemical mfg .....	1	39	17	931	33 473	453	879	12 608	178 808	198 771	375 979	11 076
3255	Paint, coating, & adhesive mfg .....	-	17	9	510	18 916	243	511	7 383	96 918	133 175	226 685	D
326	Plastics & rubber products mfg .....	-	35	16	1 936	56 494	1 568	3 288	40 123	121 469	186 180	313 681	23 097
3261	Plastics product mfg .....	1	30	15	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	5	1	f	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	30	11	724	23 812	542	1 257	16 122	81 437	92 990	174 919	D
332	Fabricated metal product mfg .....	1	73	30	1 963	70 660	1 394	2 843	40 678	163 552	124 400	284 029	10 996
3323	Architectural & structural metals mfg .....	-	19	12	617	23 594	415	836	13 000	53 014	51 552	103 660	2 414
333	Machinery mfg .....	-	37	14	1 608	63 582	904	1 907	25 246	118 987	94 370	209 947	9 104
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	5	3	603	25 317	337	709	7 869	39 368	28 720	61 978	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	5	3	603	25 317	337	709	7 869	39 368	28 720	61 978	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	34	11	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>DEKALB COUNTY, GA</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	-	10	5	1 404	41 738	1 138	2 322	28 581	147 766	168 840	305 281	15 410
3353	Electrical equipment mfg ..	-	5	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	16	5	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	3	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg .....	-	2	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	1	40	5	f	D	D	D	D	D	D	D	1 029
339	Miscellaneous mfg .....	1	71	12	1 189	36 834	779	1 848	15 151	65 717	52 594	118 277	D
3391	Medical equipment & supplies mfg .....	2	36	4	505	22 034	270	518	6 741	32 331	22 053	54 515	D
33911	Medical equipment & supplies mfg .....	2	36	4	505	22 034	270	518	6 741	32 331	22 053	54 515	D
3399	Other miscellaneous mfg ..	1	35	8	684	14 800	509	1 330	8 410	33 386	30 541	63 762	D
<b>DODGE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>16</b>	<b>4</b>	<b>867</b>	<b>17 538</b>	<b>773</b>	<b>1 336</b>	<b>13 835</b>	<b>49 539</b>	<b>102 876</b>	<b>154 987</b>	<b>1 383</b>
<b>DOOLY COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>12</b>	<b>8</b>	<b>1 521</b>	<b>30 402</b>	<b>1 320</b>	<b>2 799</b>	<b>24 363</b>	<b>104 070</b>	<b>83 924</b>	<b>186 779</b>	<b>5 421</b>
311	Food mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DOUGHERTY COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>90</b>	<b>43</b>	<b>8 627</b>	<b>311 971</b>	<b>7 065</b>	<b>15 130</b>	<b>229 793</b>	<b>1 905 032</b>	<b>2 376 378</b>	<b>4 275 544</b>	<b>D</b>
311	Food mfg .....	-	6	5	g	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
31191	Snack food mfg .....	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
311911	Roasted nuts & peanut butter mfg .....	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
312	Beverage & tobacco product mfg .....	-	4	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	-	4	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 .....	-	3	3	f	D	D	D	D	D	D	D	2 498
322	Paper mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	2	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
325411	Medicinal & botanical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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

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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>DOUGHERTY COUNTY, GA—Con.</b>												
	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading).....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
	<b>DOUGLAS COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>95</b>	<b>21</b>	<b>g</b>	<b>54 528</b>	<b>1 747</b>	<b>3 412</b>	<b>36 013</b>	<b>165 508</b>	<b>205 311</b>	<b>371 234</b>	<b>11 674</b>
332	Fabricated metal product mfg.....	-	21	6		17 478	496	974	10 683	43 402	62 330	105 666	D
3323	Architectural & structural metals mfg.....	-	9	5		15 903	445	898	9 656	40 950	59 725	100 619	D
33232	Ornamental & architectural metal products mfg.....	-	9	5		15 903	445	898	9 656	40 950	59 725	100 619	D
	<b>EARLY COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>12</b>	<b>4</b>	<b>g</b>	<b>45 029</b>	<b>857</b>	<b>1 763</b>	<b>21 289</b>	<b>165 975</b>	<b>308 602</b>	<b>475 229</b>	<b>D</b>
322	Paper mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills.....	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills.....	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills.....	-	1	1	f	D	D	D	D	D	D	D	D
	<b>EFFINGHAM COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>11</b>	<b>5</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>ELBERT COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>112</b>	<b>32</b>	<b>g</b>	<b>64 602</b>	<b>2 383</b>	<b>4 669</b>	<b>47 726</b>	<b>206 588</b>	<b>236 833</b>	<b>441 719</b>	<b>20 860</b>
311	Food mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing.....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	4	87	24		31 251	1 037	2 052	23 200	56 139	46 713	103 068	3 224
3279	Other nonmetallic mineral product mfg.....	4	80	22		28 700	939	1 898	21 474	54 217	37 984	92 393	2 930
32799	All other nonmetallic mineral product mfg....	4	80	22		28 700	939	1 898	21 474	54 217	37 984	92 393	2 930
327991	Cut stone & stone product mfg.....	4	78	22	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg....	-	2	2	f	D	D	D	D	D	D	D	D
	<b>EMANUEL COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>36</b>	<b>16</b>	<b>g</b>	<b>38 423</b>	<b>1 764</b>	<b>3 571</b>	<b>28 117</b>	<b>125 596</b>	<b>127 913</b>	<b>253 532</b>	<b>6 350</b>
332	Fabricated metal product mfg.....	1	13	8		11 011	409	790	6 768	16 618	19 681	36 492	656
	<b>EVANS COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>14</b>	<b>7</b>	<b>g</b>	<b>34 153</b>	<b>1 449</b>	<b>3 235</b>	<b>25 862</b>	<b>60 551</b>	<b>124 828</b>	<b>184 863</b>	<b>6 618</b>
311	Food mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing.....	-	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	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>FANNIN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>28</b>	<b>7</b>	<b>922</b>	<b>15 661</b>	<b>820</b>	<b>1 506</b>	<b>13 783</b>	<b>67 901</b>	<b>79 206</b>	<b>146 589</b>	<b>2 732</b>
315	Apparel mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	3	2	f	D	D	D	D	D	D	D	D
<b>FAYETTE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>85</b>	<b>24</b>	<b>5 595</b>	<b>170 180</b>	<b>3 959</b>	<b>7 693</b>	<b>95 396</b>	<b>617 321</b>	<b>742 513</b>	<b>1 345 095</b>	<b>40 815</b>
334	Computer & electronic product mfg .....	-	5	5	3 409	104 932	2 286	4 278	51 725	357 202	435 542	775 934	24 678
3343	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	-	2	2	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	-	2	2	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	-	2	2	g	D	D	D	D	D	D	D	D
<b>FLOYD COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>120</b>	<b>56</b>	<b>9 583</b>	<b>280 002</b>	<b>8 115</b>	<b>16 836</b>	<b>205 245</b>	<b>765 520</b>	<b>1 131 595</b>	<b>1 892 430</b>	<b>93 160</b>
311	Food mfg .....	-	7	6	1 141	26 485	922	2 092	18 486	81 032	158 779	240 148	2 571
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 .....	-	8	6	2 745	70 385	2 607	5 580	62 270	101 793	199 849	304 774	9 674
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 ...	-	3	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	5	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
314	Textile product mills .....	-	13	7	1 335	33 924	1 137	2 415	23 745	123 902	191 905	309 255	D
3141	Textile furnishings mills ....	-	12	7	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	10	6	g	D	D	D	D	D	D	D	D
314110	Carpet & rug mills ....	-	10	6	g	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	6	4	728	27 910	580	927	15 121	97 108	77 971	176 355	D
332	Fabricated metal product mfg .....	-	16	6	739	24 856	617	1 241	17 282	68 658	149 316	217 091	37 942
<b>FORSYTH COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>129</b>	<b>36</b>	<b>4 337</b>	<b>127 698</b>	<b>3 489</b>	<b>6 943</b>	<b>88 075</b>	<b>329 308</b>	<b>372 512</b>	<b>701 325</b>	<b>19 174</b>
311	Food mfg .....	1	5	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	1	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	1	3	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	24	6	706	24 564	512	1 068	14 263	68 059	54 383	123 265	2 601
<b>FRANKLIN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>46</b>	<b>18</b>	<b>1 852</b>	<b>43 155</b>	<b>1 488</b>	<b>2 860</b>	<b>28 232</b>	<b>134 625</b>	<b>147 440</b>	<b>281 073</b>	<b>9 182</b>
313	Textile mills .....	-	5	4	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>FULTON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>897</b>	<b>314</b>	<b>37 948</b>	<b>1 283 646</b>	<b>26 734</b>	<b>53 770</b>	<b>777 631</b>	<b>6 945 051</b>	<b>7 333 392</b>	<b>14 240 886</b>	<b>301 815</b>
311	Food mfg .....	2	64	38	6 938	182 018	5 479	10 343	127 969	1 709 853	1 230 004	2 942 707	73 485
3116	Meat product mfg .....	8	9	6	3 007	51 518	2 690	4 590	42 334	147 757	258 726	406 475	9 358
31161	Animal slaughtering & processing .....	8	9	6	3 007	51 518	2 690	4 590	42 334	147 757	258 726	406 475	9 358
311615	Poultry processing .....	8	3	3	2 764	44 787	2 490	4 080	37 245	128 331	189 808	317 699	D
3118	Bakeries & tortilla mfg .....	2	29	16	g	D	D	D	D	D	D	D	30 371
31181	Bread & bakery product mfg .....	1	22	10	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	13	8	f	D	D	D	D	D	D	D	3 254
31182	Cookie, cracker, & pasta mfg .....	2	5	4	1 025	37 661	757	1 450	24 973	110 652	100 009	214 847	26 906
311821	Cookie & cracker mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	2	12	8	g	D	D	D	D	D	D	D	16 582
312	Beverage & tobacco product mfg .....	-	15	6	1 089	38 118	619	1 427	17 096	418 288	351 042	766 763	D
3121	Beverage mfg .....	-	15	6	1 089	38 118	619	1 427	17 096	418 288	351 042	766 763	D
31211	Soft drink & ice mfg .....	-	10	5	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	-	7	5	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	3	30	10	672	15 013	547	1 120	9 414	32 966	23 119	56 105	4 903
3149	Other textile product mills ..	2	16	8	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	4	30	9	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	4	18	6	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	29	22	2 311	69 894	1 626	3 585	44 456	260 497	336 151	585 166	17 110
3222	Converted paper product mfg .....	-	28	21	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	-	16	13	1 559	49 023	1 066	2 464	29 102	156 961	239 493	390 089	9 716
322211	Corrugated & solid fiber box mfg .....	-	10	9	803	27 999	568	1 306	16 862	82 248	111 922	194 519	8 295
322212	Folding paperboard box mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	4	208	53	5 250	202 048	3 552	7 356	114 933	457 497	344 620	804 096	40 352
3231	Printing & related support activities .....	4	208	53	5 250	202 048	3 552	7 356	114 933	457 497	344 620	804 096	40 352
32311	Printing .....	4	175	42	4 511	175 044	3 002	6 262	98 402	403 137	333 183	738 018	D
323110	Commercial lithographic printing ..	4	93	24	2 790	116 510	1 902	3 970	67 908	250 288	228 484	478 637	24 179
32312	Support activities for printing .....	1	33	11	739	27 004	550	1 094	16 531	54 360	11 437	66 078	D
325	Chemical mfg .....	1	67	30	3 014	102 577	1 281	2 289	32 156	421 393	332 709	751 417	14 499
3251	Basic chemical mfg .....	-	8	4	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	4	2	f	D	D	D	D	D	D	D	1 652
325199	All other basic organic chemical mfg .....	-	4	2	f	D	D	D	D	D	D	D	1 652
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	21	12	1 210	43 140	354	713	8 307	80 674	58 072	139 127	6 117
32561	Soap & cleaning compound mfg .....	1	17	10	1 147	41 928	309	641	7 607	75 848	54 611	130 826	5 803
325611	Soap & other detergent mfg .....	2	11	7	627	25 535	207	426	5 063	46 554	35 228	81 895	4 986
325612	Polish & other sanitation good mfg ..	1	6	3	520	16 393	102	215	2 544	29 294	19 383	48 931	817
326	Plastics & rubber products mfg .....	1	44	29	2 745	84 586	2 034	4 346	53 816	230 120	251 088	479 920	15 925
3261	Plastics product mfg .....	1	40	28	2 683	82 602	1 997	4 278	53 090	226 959	246 001	471 717	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	7	6	780	27 208	537	1 197	16 301	77 295	75 582	152 013	4 591
32616	Plastics bottle mfg .....	-	7	7	713	20 907	639	1 326	17 141	49 746	60 245	109 512	4 747
326160	Plastics bottle mfg .....	-	7	7	713	20 907	639	1 326	17 141	49 746	60 245	109 512	4 747
32619	Other plastics product mfg .....	2	15	12	924	25 906	631	1 284	13 710	78 336	86 487	165 155	5 606
326199	All other plastics product mfg .....	-	13	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	44	14	1 949	70 971	1 612	3 417	54 345	274 477	176 011	462 410	8 778
3273	Cement & concrete product mfg .....	-	23	9	620	21 638	515	1 191	15 763	93 848	66 445	163 260	4 155
3279	Other nonmetallic mineral product mfg .....	-	10	2	501	20 749	385	787	15 157	97 174	43 706	142 812	2 555
32799	All other nonmetallic mineral product mfg ....	-	10	2	501	20 749	385	787	15 157	97 174	43 706	142 812	2 555
332	Fabricated metal product mfg .....	1	76	21	1 858	55 920	1 408	2 762	35 768	120 276	133 075	254 858	11 275
3323	Architectural & structural metals mfg .....	2	30	10	752	22 353	559	1 193	15 092	42 458	53 891	96 249	5 111



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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>FULTON COUNTY, GA —Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	5	33	13	844	30 657	608	1 276	18 971	72 990	66 887	140 260	3 227
334	Computer & electronic product mfg .....	2	48	16	1 405	54 939	709	1 452	18 420	127 995	88 731	212 835	10 011
335	Electrical equipment, appliance, & component mfg .....	—	11	5	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	7	4	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	7	4	g	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 .....	—	16	9	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	—	58	18	2 476	69 304	1 911	4 062	47 441	204 842	167 085	372 517	5 229
3372	Office furniture (including fixtures) mfg .....	—	26	10	1 902	56 439	1 479	3 202	39 616	157 746	108 788	266 402	4 252
33721	Office furniture (including fixtures) mfg .....	—	26	10	1 902	56 439	1 479	3 202	39 616	157 746	108 788	266 402	4 252
337215	Showcase, partition, shelving, & locker mfg .....	—	11	6	1 011	28 689	743	1 556	19 097	63 525	42 718	106 390	D
339	Miscellaneous mfg .....	3	86	13	1 270	38 594	861	1 737	17 972	94 541	59 472	154 745	D
3399	Other miscellaneous mfg ..	2	53	11	992	29 266	677	1 408	13 544	72 953	49 827	123 110	D
<b>GILMER COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>34</b>	<b>10</b>	<b>3 404</b>	<b>52 343</b>	<b>3 127</b>	<b>4 205</b>	<b>39 571</b>	<b>99 331</b>	<b>202 509</b>	<b>302 999</b>	<b>7 651</b>
311	Food mfg .....	—	3	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	2	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	2	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>GLYNN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>71</b>	<b>22</b>	<b>3 784</b>	<b>124 896</b>	<b>2 651</b>	<b>5 384</b>	<b>76 021</b>	<b>382 679</b>	<b>613 291</b>	<b>993 612</b>	<b>34 386</b>
311	Food mfg .....	—	9	3	1 166	25 354	874	1 483	11 950	28 324	169 245	197 679	D
3117	Seafood product preparation & packaging ..	—	4	3	g	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging .....	—	4	3	g	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing ..	—	4	3	g	D	D	D	D	D	D	D	D
322	Paper mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	7	5	505	10 426	205	383	4 692	42 108	42 692	86 736	1 866
<b>GORDON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>102</b>	<b>57</b>	<b>10 527</b>	<b>255 449</b>	<b>7 798</b>	<b>15 635</b>	<b>158 770</b>	<b>801 498</b>	<b>1 572 039</b>	<b>2 419 003</b>	<b>60 083</b>
313	Textile mills .....	—	11	7	1 326	29 481	1 255	2 643	26 606	60 474	141 553	199 416	1 686
3131	Fiber, yarn, & thread mills ..	—	6	4	773	19 522	746	1 729	18 478	34 590	124 153	156 131	1 163
31311	Fiber, yarn, & thread mills .....	—	6	4	773	19 522	746	1 729	18 478	34 590	124 153	156 131	1 163
314	Textile product mills .....	—	34	25	6 389	155 289	4 361	8 941	83 771	502 133	631 121	1 190 286	41 113
3141	Textile furnishings mills .....	—	29	21	i	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	—	27	19	5 295	127 370	3 555	7 307	68 434	366 139	547 427	974 374	39 820
314110	Carpet & rug mills .....	—	27	19	5 295	127 370	3 555	7 307	68 434	366 139	547 427	974 374	39 820
31412	Curtain & linen mills .....	—	2	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
326	Plastics & rubber products mfg .....	1	14	10	617	17 137	480	927	10 111	61 457	85 103	146 320	3 735

**Table 3. Industry Statistics for Counties: 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>GORDON COUNTY, GA</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	—	5	2	g	D	D	D	D	D	D	D	4 471
3336	Engine, turbine, & power transmission equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>GRADY COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>19</b>	<b>6</b>	<b>1 402</b>	<b>29 578</b>	<b>1 231</b>	<b>2 206</b>	<b>23 271</b>	<b>78 703</b>	<b>68 371</b>	<b>153 732</b>	<b>7 753</b>
332	Fabricated metal product mfg .....	—	4	2	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
<b>GREENE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>19</b>	<b>11</b>	<b>1 533</b>	<b>33 069</b>	<b>1 339</b>	<b>2 620</b>	<b>24 157</b>	<b>98 571</b>	<b>352 811</b>	<b>448 424</b>	<b>14 751</b>
315	Apparel mfg .....	—	6	5	f	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	—	2	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills .....	—	2	2	f	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>GWINNETT COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>737</b>	<b>237</b>	<b>29 121</b>	<b>1 071 268</b>	<b>19 123</b>	<b>38 875</b>	<b>535 538</b>	<b>3 402 722</b>	<b>2 857 800</b>	<b>6 241 653</b>	<b>329 090</b>
311	Food mfg .....	—	18	6	520	13 606	389	883	8 293	47 697	84 494	133 740	8 597
314	Textile product mills .....	—	19	6	550	11 764	483	909	8 997	29 715	25 517	53 527	D
315	Apparel mfg .....	—	11	6	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	—	9	4	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	3	19	14	1 240	40 288	957	2 181	23 608	126 755	139 683	264 474	8 474
3222	Converted paper product mfg .....	3	19	14	1 240	40 288	957	2 181	23 608	126 755	139 683	264 474	8 474
32221	Paperboard container mfg .....	—	11	9	797	26 076	630	1 431	14 705	67 409	64 157	130 573	4 378
323	Printing & related support activities .....	1	144	27	1 993	62 407	1 270	2 499	34 068	173 123	75 578	248 716	14 116
3231	Printing & related support activities .....	1	144	27	1 993	62 407	1 270	2 499	34 068	173 123	75 578	248 716	14 116
32311	Printing .....	1	127	24	1 793	56 163	1 118	2 228	29 800	72 506	72 506	233 391	13 364
323110	Commercial lithographic printing ..	1	57	10	835	29 342	460	953	14 867	78 444	37 796	116 202	10 219
325	Chemical mfg .....	1	37	16	1 485	49 713	738	1 447	17 886	192 948	190 628	381 195	24 080
3259	Other chemical product mfg .....	—	11	8	817	26 437	366	724	9 021	102 391	107 549	204 724	6 934
32599	All other chemical product & preparation mfg .....	—	9	6	f	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resin...	—	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	1	26	14	879	27 153	719	1 481	18 789	67 116	85 900	152 021	16 248
3261	Plastics product mfg .....	1	25	14	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	2	18	11	620	19 034	509	1 046	13 081	50 130	63 627	113 160	13 628
326199	All other plastics product mfg .....	2	16	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	30	12	784	25 776	611	1 193	18 345	96 692	168 201	264 271	12 242

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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>WINNETT COUNTY, GA—Con.</b>												
	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	-	81	26	1 681	53 498	1 160	2 372	28 845	151 315	129 301	280 412	8 124
3323	Architectural & structural metals mfg .....	-	28	13	964	29 441	623	1 342	14 832	104 902	96 140	199 921	3 797
33232	Ornamental & architectural metal products mfg .....	-	20	9	808	23 478	544	1 165	12 445	88 587	67 319	155 028	D
333	Machinery mfg .....	-	50	17	2 340	73 570	1 433	2 845	36 924	308 016	251 267	547 790	20 290
3339	Other general-purpose machinery mfg .....	-	14	6	1 497	44 930	868	1 652	20 637	244 430	192 706	425 077	D
33399	All other general-purpose machinery mfg .....	-	11	5	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
334	Computer & electronic product mfg .....	2	86	37	7 635	335 777	4 242	9 639	126 989	1 048 323	975 224	2 009 520	50 492
3341	Computer & peripheral equipment mfg .....	-	12	5	1 467	73 919	642	1 364	18 712	242 222	171 482	416 884	8 148
33411	Computer & peripheral equipment mfg .....	-	12	5	1 467	73 919	642	1 364	18 712	242 222	171 482	416 884	8 148
334119	Other computer peripheral equipment mfg .....	-	7	3	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	3	21	12	3 212	147 434	1 983	5 355	73 046	516 105	521 965	1 008 588	29 034
33421	Telephone apparatus mfg .....	1	7	3	532	30 807	48	81	1 110	40 907	32 611	74 503	7 082
334210	Telephone apparatus mfg .....	1	7	3	532	30 807	48	81	1 110	40 907	32 611	74 503	7 082
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	3	14	9	2 680	116 627	1 935	5 274	71 936	475 198	489 354	934 085	21 952
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	3	14	9	2 680	116 627	1 935	5 274	71 936	475 198	489 354	934 085	21 952
3344	Semiconductor & other electronic component mfg .....	-	21	7	1 380	49 352	738	1 167	9 686	154 204	164 611	333 666	4 875
33441	Semiconductor & other electronic component mfg .....	-	21	7	1 380	49 352	738	1 167	9 686	154 204	164 611	333 666	4 875
334418	Printed circuit assembly (electronic assembly) mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	-	23	11	1 386	57 608	751	1 501	21 621	119 631	89 221	208 199	7 122
33451	Navigational, measuring, medical, & control instruments mfg .....	-	23	11	1 386	57 608	751	1 501	21 621	119 631	89 221	208 199	7 122
335	Electrical equipment, appliance, & component mfg .....	-	13	6	h	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	5	3	h	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	17	7	1 574	63 564	916	1 854	24 435	203 398	92 897	277 686	9 206
3363	Motor vehicle parts mfg .....	1	11	5	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	2	58	13	770	20 736	614	1 184	14 121	39 691	22 495	62 564	1 784
339	Miscellaneous mfg .....	1	88	18	2 940	92 124	2 134	3 889	47 279	173 904	150 823	370 795	23 385
3391	Medical equipment & supplies mfg .....	1	42	7	2 103	66 518	1 567	2 811	36 460	105 847	88 688	239 331	21 046
33911	Medical equipment & supplies mfg .....	1	42	7	2 103	66 518	1 567	2 811	36 460	105 847	88 688	239 331	21 046
339115	Ophthalmic goods mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	2	46	11	837	25 606	567	1 078	10 819	68 057	62 135	131 464	2 339

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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>HABERSHAM COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>69</b>	<b>25</b>	<b>4 354</b>	<b>111 820</b>	<b>3 530</b>	<b>6 716</b>	<b>76 623</b>	<b>402 104</b>	<b>282 676</b>	<b>681 231</b>	<b>16 486</b>
311	Food mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills.....	-	4	3	630	19 150	542	1 102	14 685	46 422	39 570	83 828	D
3132	Fabric mills.....	-	3	2	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
339	Miscellaneous mfg.....	-	4	4	1 239	41 091	867	1 657	22 086	112 256	41 121	151 550	D
3391	Medical equipment & supplies mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>HALL COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>226</b>	<b>95</b>	<b>16 519</b>	<b>443 089</b>	<b>13 361</b>	<b>26 401</b>	<b>306 271</b>	<b>1 835 772</b>	<b>2 456 880</b>	<b>4 293 699</b>	<b>133 559</b>
311	Food mfg.....	-	29	22	5 928	132 439	5 277	10 239	106 165	677 490	1 431 717	2 105 389	36 283
3113	Sugar & confectionery product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	11	9	4 660	90 133	4 241	8 191	73 897	239 837	677 627	914 709	7 142
31161	Animal slaughtering & processing.....	-	11	9	4 660	90 133	4 241	8 191	73 897	239 837	677 627	914 709	7 142
311615	Poultry processing....	-	10	9	h	D	D	D	D	D	D	D	D
313	Textile mills.....	-	5	4	1 048	28 063	968	2 279	23 438	56 664	144 242	195 928	12 026
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
315	Apparel mfg.....	6	4	3	511	8 767	440	971	6 639	12 419	11 118	23 124	500
3152	Cut & sew apparel mfg....	6	4	3	511	8 767	440	971	6 639	12 419	11 118	23 124	500
321	Wood product mfg.....	-	10	2	f	D	D	D	D	D	D	D	1 339
3219	Other wood product mfg...	-	6	1	f	D	D	D	D	D	D	D	D
32191	Millwork.....	-	5	1	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg .....	-	4	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	19	7	801	25 395	551	746	13 876	68 589	58 814	128 118	2 098
3231	Printing & related support activities.....	-	19	7	801	25 395	551	746	13 876	68 589	58 814	128 118	2 098
32311	Printing .....	-	18	7	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	16	7	1 060	36 089	702	1 379	18 264	241 632	129 093	371 158	9 183
331	Primary metal mfg.....	-	4	4	649	19 645	499	1 111	12 927	46 276	65 079	111 452	2 362
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
332	Fabricated metal product mfg .....	-	26	4	683	23 425	564	1 144	17 518	65 923	59 761	134 965	D
333	Machinery mfg.....	-	24	11	1 049	38 417	747	1 466	24 325	74 993	98 952	175 390	10 633
336	Transportation equipment mfg .....	2	12	7	1 331	38 654	1 022	2 081	23 844	113 447	125 949	241 594	23 491
3363	Motor vehicle parts mfg ...	3	7	5	g	D	D	D	D	D	D	D	D

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<b>HARALSON COUNTY, GA</b>													
31-33	Manufacturing ....	2	35	18	2 552	59 412	2 083	3 826	42 617	147 107	194 430	340 027	6 532
315	Apparel mfg .....	4	5	5	674	10 202	543	794	6 623	23 415	32 159	55 065	D
3152	Cut & sew apparel mfg ....	4	5	5	674	10 202	543	794	6 623	23 415	32 159	55 065	D
31522	Men's & boys' cut & sew apparel mfg.....	4	4	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	—	5	4	578	16 253	486	1 080	11 392	33 559	68 129	101 347	875
332	Fabricated metal product mfg .....	—	8	2	f	D	D	D	D	D	D	D	D
<b>HARRIS COUNTY, GA</b>													
31-33	Manufacturing ....	1	19	5	g	D	D	D	D	D	D	D	D
311	Food mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>HART COUNTY, GA</b>													
31-33	Manufacturing ....	—	36	15	2 540	61 092	2 144	4 266	47 392	271 755	190 224	465 552	24 178
313	Textile mills .....	—	4	4	568	13 281	517	1 124	11 674	66 038	76 989	154 103	D
336	Transportation equipment mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	2	1	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg ....	—	1	1	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>HEARD COUNTY, GA</b>													
31-33	Manufacturing ....	1	9	3	550	12 776	459	824	9 026	32 507	45 634	77 621	D
<b>HENRY COUNTY, GA</b>													
31-33	Manufacturing ....	—	68	25	3 392	106 088	2 471	4 955	64 425	401 284	477 335	854 821	28 253
333	Machinery mfg .....	—	5	2	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	—	1	1	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>HOUSTON COUNTY, GA</b>													
31-33	Manufacturing ....	—	66	17	h	D	D	D	D	D	D	D	D
311	Food mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31191	Snack food mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	8	3	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>IRWIN COUNTY, GA</b>													
31-33	Manufacturing ....	2	7	4	746	13 749	664	1 488	10 523	23 387	18 778	38 540	1 234

**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>JACKSON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>65</b>	<b>28</b>	<b>5 896</b>	<b>135 830</b>	<b>4 768</b>	<b>9 482</b>	<b>96 869</b>	<b>415 202</b>	<b>816 594</b>	<b>1 204 485</b>	<b>48 649</b>
311	Food mfg .....	-	5	4	2 169	39 140	1 991	3 985	32 932	133 606	154 688	280 830	D
3116	Meat product mfg .....	-	3	3	g	D	D	D	D	D	D	D	4 130
31161	Animal slaughtering & processing .....	-	3	3	g	D	D	D	D	D	D	D	4 130
311615	Poultry processing .....	-	3	3	g	D	D	D	D	D	D	D	4 130
313	Textile mills .....	2	3	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	3	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	3	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	3	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	8	2	2	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>JASPER COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>19</b>	<b>10</b>	<b>737</b>	<b>21 442</b>	<b>640</b>	<b>1 355</b>	<b>17 706</b>	<b>50 411</b>	<b>124 252</b>	<b>176 661</b>	<b>6 390</b>
321	Wood product mfg .....	-	7	5	f	D	D	D	D	D	D	D	D
<b>JEFF DAVIS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>23</b>	<b>8</b>	<b>2 493</b>	<b>48 950</b>	<b>1 989</b>	<b>4 185</b>	<b>40 856</b>	<b>154 568</b>	<b>149 465</b>	<b>304 402</b>	<b>10 878</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>JEFFERSON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>28</b>	<b>11</b>	<b>1 999</b>	<b>51 944</b>	<b>1 647</b>	<b>3 449</b>	<b>37 751</b>	<b>62 768</b>	<b>222 195</b>	<b>294 210</b>	<b>8 001</b>
<b>JENKINS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>4</b>	<b>3</b>	<b>1 294</b>	<b>24 966</b>	<b>1 202</b>	<b>1 993</b>	<b>19 101</b>	<b>86 508</b>	<b>66 354</b>	<b>154 319</b>	<b>5 041</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
315192	Underwear & nightwear knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>JOHNSON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>4</b>	<b>8</b>	<b>7</b>	<b>762</b>	<b>8 845</b>	<b>642</b>	<b>1 111</b>	<b>6 913</b>	<b>20 194</b>	<b>14 534</b>	<b>34 857</b>	<b>593</b>
315	Apparel mfg .....	7	3	3	524	5 178	447	740	4 471	11 444	4 019	15 428	D
3152	Cut & sew apparel mfg ....	7	3	3	524	5 178	447	740	4 471	11 444	4 019	15 428	D
<b>LAMAR COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>13</b>	<b>6</b>	<b>1 605</b>	<b>35 082</b>	<b>1 351</b>	<b>2 841</b>	<b>25 381</b>	<b>72 154</b>	<b>118 288</b>	<b>190 912</b>	<b>9 980</b>
314	Textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills .	-	2	2	f	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	2	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>LAURENS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>43</b>	<b>25</b>	<b>5 703</b>	<b>134 178</b>	<b>4 509</b>	<b>9 357</b>	<b>91 313</b>	<b>383 470</b>	<b>503 479</b>	<b>888 577</b>	<b>37 928</b>
313	Textile mills .....	-	2	2	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
314	Textile product mills .....	-	2	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	2	2	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	5	3	871	12 688	649	1 211	8 822	17 622	7 110	25 675	D
3152	Cut & sew apparel mfg ....	-	5	3	871	12 688	649	1 211	8 822	17 622	7 110	25 675	D
31522	Men's & boys' cut & sew apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	8	3	525	11 915	389	819	7 055	28 441	41 234	67 785	D
337	Furniture & related product mfg .....	-	11	6	993	19 304	887	1 831	14 756	31 017	61 634	92 454	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	11	6	993	19 304	887	1 831	14 756	31 017	61 634	92 454	D
33712	Household & institutional furniture mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>LIBERTY COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>9</b>	<b>1 020</b>	<b>33 933</b>	<b>782</b>	<b>1 834</b>	<b>24 143</b>	<b>110 722</b>	<b>212 455</b>	<b>318 966</b>	<b>D</b>
<b>LINCOLN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	5	<b>7</b>	<b>3</b>	<b>688</b>	<b>10 917</b>	<b>629</b>	<b>1 463</b>	<b>9 355</b>	<b>17 571</b>	<b>38 311</b>	<b>55 849</b>	<b>D</b>
<b>LOWNDES COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>98</b>	<b>37</b>	<b>5 492</b>	<b>146 679</b>	<b>4 234</b>	<b>8 751</b>	<b>97 974</b>	<b>460 915</b>	<b>1 017 359</b>	<b>1 468 866</b>	<b>36 422</b>
311	Food mfg .....	-	8	5	733	16 497	517	1 067	10 300	71 195	399 230	460 100	3 413
3118	Bakeries & tortilla mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	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
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
321	Wood product mfg .....	-	9	5	f	D	D	D	D	D	D	D	4 050
322	Paper mfg .....	-	5	3	656	27 173	511	1 259	19 692	95 784	123 453	219 140	D
326	Plastics & rubber products mfg .....	-	5	4	595	11 814	445	857	8 243	27 792	27 695	55 270	3 112
3261	Plastics product mfg .....	-	5	4	595	11 814	445	857	8 243	27 792	27 695	55 270	3 112
336	Transportation equipment mfg .....	-	4	4	709	13 936	612	1 083	10 968	42 742	38 444	80 060	D
<b>LUMPKIN COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>17</b>	<b>6</b>	<b>879</b>	<b>21 018</b>	<b>760</b>	<b>1 416</b>	<b>16 875</b>	<b>41 721</b>	<b>43 823</b>	<b>85 948</b>	<b>6 865</b>
<b>MCDUFFIE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>26</b>	<b>13</b>	<b>1 677</b>	<b>41 664</b>	<b>1 414</b>	<b>2 798</b>	<b>32 734</b>	<b>83 596</b>	<b>214 782</b>	<b>297 837</b>	<b>4 247</b>
313	Textile mills .....	-	3	3	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	-	1	1	f	D	D	D	D	D	D	D	D

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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>MACON COUNTY, GA</b>													
31-33	Manufacturing ....	2	14	5	1 624	46 725	1 348	3 047	33 813	103 549	269 432	368 964	16 449
311	Food mfg.....	4	3	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	9	1	1	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	9	1	1	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	9	1	1	g	D	D	D	D	D	D	D	D
<b>MADISON COUNTY, GA</b>													
31-33	Manufacturing ....	-	31	6	826	18 927	704	1 468	14 884	32 099	38 339	69 022	2 501
<b>MARION COUNTY, GA</b>													
31-33	Manufacturing ....	-	5	2	g	D	D	D	D	D	D	D	D
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
<b>MERIWETHER COUNTY, GA</b>													
31-33	Manufacturing ....	1	22	13	2 105	46 089	1 649	3 511	33 817	127 290	142 104	273 748	8 300
321	Wood product mfg.....	-	5	3	527	16 445	479	1 058	13 855	51 666	87 326	138 377	3 699
339	Miscellaneous mfg.....	2	2	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D	D
<b>MITCHELL COUNTY, GA</b>													
31-33	Manufacturing ....	7	17	8	1 016	15 411	913	1 756	12 288	30 321	41 635	72 227	1 747
315	Apparel mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>MONROE COUNTY, GA</b>													
31-33	Manufacturing ....	3	21	6	515	10 693	434	765	7 885	27 870	20 353	57 138	1 597
<b>MORGAN COUNTY, GA</b>													
31-33	Manufacturing ....	1	20	8	1 512	39 755	1 266	2 585	29 597	112 722	153 422	262 099	11 085
<b>MURRAY COUNTY, GA</b>													
31-33	Manufacturing ....	-	100	32	5 321	121 789	4 602	9 969	95 306	336 725	860 924	1 201 927	16 319
313	Textile mills.....	-	7	5	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	6	5	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	6	5	g	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	-	5	4	g	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	58	23	3 597	83 400	3 023	6 513	62 035	251 568	626 909	875 894	D
3141	Textile furnishings mills....	-	54	19	3 465	80 606	2 924	6 349	60 488	245 397	614 539	858 373	12 397
31411	Carpet & rug mills .....	-	54	19	3 465	80 606	2 924	6 349	60 488	245 397	614 539	858 373	12 397
314110	Carpet & rug mills .....	-	54	19	3 465	80 606	2 924	6 349	60 488	245 397	614 539	858 373	12 397



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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>MUSCOGEE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>158</b>	<b>75</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>D</b>
311	Food mfg . . . . .	-	15	7	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	-	5	3	2 137	64 801	1 183	2 576	35 850	296 278	120 719	416 729	10 002
31181	Bread & bakery product mfg . . . . .	-	3	1	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	4	9	7	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
31311	Fiber, yarn, & thread mills . . . . .	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
313111	Yarn spinning mills . . . . .	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
3132	Fabric mills . . . . .	6	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	6	3	3	g	D	D	D	D	D	D	D	16 387
313210	Broadwoven fabric mills . . . . .	6	3	3	g	D	D	D	D	D	D	D	16 387
331	Primary metal mfg . . . . .	-	6	5	g	D	D	D	D	D	D	D	D
3315	Foundries . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries . . . . .	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	20	11	g	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	2	9	7	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	3	3	3	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg . . . . .	3	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	-	5	5	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
33591	Battery mfg . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	-	6	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
<b>NEWTON COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>62</b>	<b>23</b>	<b>3 976</b>	<b>146 365</b>	<b>2 527</b>	<b>5 646</b>	<b>70 634</b>	<b>756 972</b>	<b>582 835</b>	<b>1 348 760</b>	<b>42 133</b>
313	Textile mills . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	6	6	2	657	27 162	370	821	14 657	104 288	142 326	246 897	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	9	2	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	5	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	-	4	2	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
<b>OCONEE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>-</b>	<b>30</b>	<b>12</b>	<b>746</b>	<b>20 761</b>	<b>579</b>	<b>1 108</b>	<b>13 626</b>	<b>78 351</b>	<b>132 669</b>	<b>208 795</b>	<b>3 662</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>PAULDING COUNTY, GA</b>													
31-33	Manufacturing ....	-	38	11	1 161	26 034	914	1 804	20 727	75 193	62 477	137 260	3 145
<b>PEACH COUNTY, GA</b>													
31-33	Manufacturing ....	-	32	13	h	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	1	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	1	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	2	2	g	D	D	D	D	D	D	D	D
<b>PICKENS COUNTY, GA</b>													
31-33	Manufacturing ....	-	35	12	1 155	26 736	913	1 745	18 700	74 152	62 922	135 777	7 454
<b>PIERCE COUNTY, GA</b>													
31-33	Manufacturing ....	1	17	7	521	9 077	468	884	7 126	22 082	56 166	77 208	D
<b>POLK COUNTY, GA</b>													
31-33	Manufacturing ....	-	35	15	2 273	62 105	1 844	4 079	45 962	218 223	206 687	423 057	10 235
311	Food mfg.....	-	4	2	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
337	Furniture & related product mfg .....	-	4	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
337214	Office furniture (except wood) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>PULASKI COUNTY, GA</b>													
31-33	Manufacturing ....	-	11	2	f	D	D	D	D	D	D	D	D
<b>PUTNAM COUNTY, GA</b>													
31-33	Manufacturing ....	-	24	14	2 030	56 805	1 733	3 406	45 041	144 801	280 582	424 750	4 152
321	Wood product mfg .....	-	6	5	1 509	46 016	1 287	2 535	36 605	108 463	217 537	324 819	2 219
3219	Other wood product mfg...	-	4	3	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
<b>RABUN COUNTY, GA</b>													
31-33	Manufacturing ....	-	27	8	1 870	44 117	1 711	3 423	37 666	135 266	178 410	316 037	14 859
313	Textile mills .....	-	2	2	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
313111	Yarn spinning mills ...	-	2	2	g	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E <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>RICHMOND COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>134</b>	<b>61</b>	<b>12 084</b>	<b>423 367</b>	<b>8 547</b>	<b>16 841</b>	<b>258 729</b>	<b>2 266 585</b>	<b>1 810 816</b>	<b>4 092 608</b>	<b>117 517</b>
311	Food mfg . . . . .	—	7	6	g	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	4	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills . . . . .	4	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	4	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills . . . . .	4	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	—	5	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills . . . . .	—	4	1	f	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	—	7	7	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills . . . . .	—	4	4	g	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	—	22	14	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg . . . . .	—	13	9	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg . . . . .	—	5	5	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	—	7	3	g	D	D	D	D	D	D	D	D
3271	Clay product & refractory mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	4	2	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	—	14	3	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg . . . . .	—	8	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg . . . . .	—	8	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
<b>ROCKDALE COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>116</b>	<b>44</b>	<b>6 730</b>	<b>199 954</b>	<b>4 659</b>	<b>9 807</b>	<b>121 323</b>	<b>743 385</b>	<b>883 045</b>	<b>1 625 109</b>	<b>39 657</b>
322	Paper mfg . . . . .	—	8	6	f	D	D	D	D	D	D	D	1 638
326	Plastics & rubber products mfg . . . . .	—	11	10	1 191	34 985	872	1 823	22 766	86 078	76 213	163 874	8 950
3261	Plastics product mfg . . . . .	—	9	8	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	—	5	4	994	30 839	738	1 609	20 464	75 337	64 574	140 430	4 890
326199	All other plastics product mfg . . . . .	—	5	4	994	30 839	738	1 609	20 464	75 337	64 574	140 430	4 890

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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>ROCKDALE COUNTY, GA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	-	9	3	1 152	38 639	821	1 787	23 173	120 124	83 581	203 190	6 963
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	8	2	2	g	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/ institutional electric lighting fixture mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
	<b>SCHLEY COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>9</b>	<b>7</b>	<b>589</b>	<b>14 623</b>	<b>498</b>	<b>997</b>	<b>10 588</b>	<b>49 382</b>	<b>66 469</b>	<b>115 445</b>	<b>2 425</b>
	<b>SCREVEN COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>13</b>	<b>4</b>	<b>1 289</b>	<b>33 889</b>	<b>1 125</b>	<b>2 171</b>	<b>26 846</b>	<b>76 284</b>	<b>51 855</b>	<b>127 753</b>	<b>2 780</b>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	4	1	f	D	D	D	D	D	D	D	662
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
	<b>SPALDING COUNTY, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>70</b>	<b>31</b>	<b>6 328</b>	<b>150 656</b>	<b>5 250</b>	<b>10 937</b>	<b>113 082</b>	<b>512 349</b>	<b>636 347</b>	<b>1 118 762</b>	<b>37 066</b>
313	Textile mills .....	-	6	6	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	1	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
3133	Textile & fabric finishing & fabric coating mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	4	3	f	D	D	D	D	D	D	D	431
3141	Textile furnishings mills....	-	4	3	f	D	D	D	D	D	D	D	431
31412	Curtain & linen mills.....	-	4	3	f	D	D	D	D	D	D	D	431
314129	Other household textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	431
326	Plastics & rubber products mfg .....	-	9	7	1 340	36 178	1 115	2 370	27 878	218 616	145 863	359 651	16 739
3262	Rubber product mfg .....	-	6	5	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	-	3	3	f	D	D	D	D	D	D	D	3 486
326291	Rubber product mfg for mechanical use .....	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) 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>SPALDING COUNTY, GA—Con.</b>													
	<b>Manufacturing—Con.</b>													
336	Transportation equipment mfg .....	-	4	3	f	D	D	D	D	D	D	D	D	
3362	Motor vehicle body & trailer mfg .....	-	3	3	f	D	D	D	D	D	D	D	D	
33621	Motor vehicle body & trailer mfg .....	-	3	3	f	D	D	D	D	D	D	D	D	
336211	Motor vehicle body mfg .....	-	3	3	f	D	D	D	D	D	D	D	D	
	<b>STEPHENS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>64</b>	<b>28</b>		<b>3 970</b>	<b>88 424</b>	<b>3 190</b>	<b>6 287</b>	<b>63 066</b>	<b>262 717</b>	<b>377 269</b>	<b>634 826</b>	<b>13 297</b>
313	Textile mills .....	-	4	4	g	D	D	D	D	D	D	D	D	1 773
3133	Textile & fabric finishing & fabric coating mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	12	4		672	16 720	561	1 171	12 548	36 865	22 253	58 596	2 480
	<b>SUMTER COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>38</b>	<b>16</b>		<b>3 163</b>	<b>71 341</b>	<b>2 582</b>	<b>5 086</b>	<b>52 418</b>	<b>185 042</b>	<b>288 395</b>	<b>475 405</b>	<b>8 792</b>
335	Electrical equipment, appliance, & component mfg .....	-	2	1	f	D	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	-	2	1	f	D	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	1	1	f	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	3	10	4		501	8 278	423	706	5 931	14 342	35 467	49 677	1 902
3371	Household & institutional furniture & kitchen cabinet mfg .....	3	10	4		501	8 278	423	706	5 931	14 342	35 467	49 677	1 902
	<b>TATTNALL COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>12</b>	<b>3</b>		<b>762</b>	<b>8 438</b>	<b>622</b>	<b>1 121</b>	<b>7 527</b>	<b>39 043</b>	<b>23 643</b>	<b>62 917</b>	<b>332</b>
315	Apparel mfg .....	-	3	3	f	D	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	3	3	f	D	D	D	D	D	D	D	D	D
	<b>TELFAIR COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>14</b>	<b>6</b>		<b>1 946</b>	<b>37 041</b>	<b>1 770</b>	<b>3 580</b>	<b>31 632</b>	<b>158 830</b>	<b>419 476</b>	<b>566 347</b>	<b>9 536</b>
314	Textile product mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	-	1	1	f	D	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg ....	-	1	1	f	D	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
	<b>TERRELL COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>13</b>	<b>6</b>		<b>786</b>	<b>15 057</b>	<b>693</b>	<b>1 395</b>	<b>12 010</b>	<b>37 395</b>	<b>98 238</b>	<b>141 636</b>	<b>1 739</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>THOMAS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>72</b>	<b>30</b>	<b>4 926</b>	<b>108 635</b>	<b>3 748</b>	<b>7 542</b>	<b>68 881</b>	<b>421 270</b>	<b>517 006</b>	<b>933 735</b>	<b>22 777</b>
311	Food mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	3	3	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	9	5	874	16 765	749	1 561	13 516	51 602	81 088	131 179	2 517
332	Fabricated metal product mfg .....	-	16	4	520	13 685	412	758	9 404	32 536	41 090	73 604	1 042
<b>TIFT COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>51</b>	<b>24</b>	<b>4 449</b>	<b>103 675</b>	<b>3 878</b>	<b>8 163</b>	<b>81 464</b>	<b>203 990</b>	<b>409 364</b>	<b>613 276</b>	<b>13 688</b>
313	Textile mills .....	-	6	6	g	D	D	D	D	D	D	D	2 187
3131	Fiber, yarn, & thread mills .	-	4	4	1 213	28 002	1 149	2 514	25 522	42 153	92 902	135 429	D
31311	Fiber, yarn, & thread mills .....	-	4	4	1 213	28 002	1 149	2 514	25 522	42 153	92 902	135 429	D
313111	Yarn spinning mills ...	-	4	4	1 213	28 002	1 149	2 514	25 522	42 153	92 902	135 429	D
333	Machinery mfg .....	-	7	4	533	15 252	440	898	10 696	41 794	48 499	90 048	3 161
336	Transportation equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TOOMBS COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	2	<b>38</b>	<b>17</b>	<b>2 516</b>	<b>41 621</b>	<b>2 093</b>	<b>3 281</b>	<b>30 369</b>	<b>79 874</b>	<b>89 074</b>	<b>169 335</b>	<b>5 589</b>
315	Apparel mfg .....	3	5	5	1 253	17 885	1 022	1 187	13 520	16 888	3 724	20 721	D
3152	Cut & sew apparel mfg ....	3	5	5	1 253	17 885	1 022	1 187	13 520	16 888	3 724	20 721	D
31521	Cut & sew apparel contractors .....	-	4	4	f	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors .....	-	4	4	f	D	D	D	D	D	D	D	D
<b>TROUP COUNTY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>101</b>	<b>57</b>	<b>9 369</b>	<b>284 210</b>	<b>7 131</b>	<b>15 651</b>	<b>177 184</b>	<b>712 122</b>	<b>1 093 235</b>	<b>1 807 657</b>	<b>76 425</b>
313	Textile mills .....	1	14	12	2 111	58 420	1 772	4 036	44 200	125 548	239 042	364 125	19 522
3132	Fabric mills .....	1	8	7	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	3	5	4	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	3	5	4	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	8	7	2 531	84 919	1 860	4 126	48 331	188 456	392 173	587 086	14 428
3141	Textile furnishings mills....	-	4	3	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	3	3	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills ....	-	3	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills..	-	4	4	g	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	3	3	g	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	3	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	8	8	1 104	30 371	919	1 682	19 393	122 745	139 428	259 204	12 512
3261	Plastics product mfg .....	-	6	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	12	8	926	31 609	460	925	15 946	62 008	73 045	136 704	1 381
335	Electrical equipment, appliance, & component mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	5	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>TURNER COUNTY, GA</b>													
31-33	Manufacturing ....	-	10	6	686	11 799	611	1 798	8 936	31 159	35 202	66 053	1 798
<b>UPSON COUNTY, GA</b>													
31-33	Manufacturing ....	-	26	14	4 241	82 931	3 476	6 888	63 239	251 200	317 373	555 087	14 511
313	Textile mills .....	-	5	4	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	3	2	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
3133	Textile & fabric finishing & fabric coating mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	2	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	2	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	2	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	2	f	D	D	D	D	D	D	D	D
<b>WALKER COUNTY, GA</b>													
31-33	Manufacturing ....	2	77	25	6 555	159 872	5 820	11 481	122 852	575 852	650 545	1 207 686	68 996
313	Textile mills .....	5	17	13	h	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
3132	Fabric mills .....	9	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	9	3	3	g	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	9	3	3	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	-	8	5	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	8	5	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills .....	-	6	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg ....	-	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>WALTON COUNTY, GA</b>													
31-33	Manufacturing ....	1	55	23	2 611	70 409	2 122	4 226	50 588	190 046	252 173	441 482	15 880
<b>WARE COUNTY, GA</b>													
31-33	Manufacturing ....	-	42	14	2 121	55 841	1 779	3 580	37 008	126 481	162 448	287 445	3 198
321	Wood product mfg .....	-	6	4	1 152	32 178	987	1 965	20 805	74 076	114 116	188 484	1 155
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
<b>WARREN COUNTY, GA</b>													
31-33	Manufacturing ....	1	6	5	798	19 961	706	1 510	13 808	62 257	68 619	130 978	2 504
<b>WASHINGTON COUNTY, GA</b>													
31-33	Manufacturing ....	-	18	6	917	22 316	802	1 506	15 691	93 446	40 398	131 696	3 315

**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, GA</b>													
31-33	Manufacturing ....	-	23	8	1 816	55 968	1 441	2 740	41 649	238 903	217 611	460 613	D
322	Paper mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32211	Pulp mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322110	Pulp mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>WHITE COUNTY, GA</b>													
31-33	Manufacturing ....	-	28	5	952	27 039	808	1 616	15 713	88 247	83 209	172 804	5 952
339	Miscellaneous mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
<b>WHITFIELD COUNTY, GA</b>													
31-33	Manufacturing ....	-	379	164	27 373	687 477	21 626	47 117	505 759	2 444 713	3 823 416	6 166 529	86 913
311	Food mfg .....	1	8	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	36	16	2 092	51 039	1 925	4 121	43 205	87 909	166 778	257 003	4 614
3131	Fiber, yarn, & thread mills .	-	16	7	1 534	38 662	1 450	3 109	33 200	62 467	139 385	204 492	2 417
31311	Fiber, yarn, & thread mills .....	-	16	7	1 534	38 662	1 450	3 109	33 200	62 467	139 385	204 492	2 417
313111	Yarn spinning mills ...	-	12	4	949	24 544	916	1 906	21 430	35 305	65 075	102 980	1 671
313112	Yarn texturing, throwing, & twisting mills .....	-	4	3	585	14 118	534	1 203	11 770	27 162	74 310	101 512	746
314	Textile product mills .....	-	157	75	19 493	494 506	15 186	34 503	368 062	1 946 627	3 010 786	4 855 234	57 773
3141	Textile furnishings mills ....	-	133	59	18 009	470 761	13 865	32 033	351 298	1 903 843	2 923 978	4 716 846	D
31411	Carpet & rug mills .....	-	126	54	17 728	466 219	13 615	31 677	348 184	1 850 663	2 860 242	4 598 770	54 846
314110	Carpet & rug mills .....	-	126	54	17 728	466 219	13 615	31 677	348 184	1 850 663	2 860 242	4 598 770	54 846
3149	Other textile product mills ..	1	24	16	1 484	23 745	1 321	2 470	16 764	42 784	86 808	138 388	D
31499	All other textile product mills .....	1	23	16	g	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	1	23	16	g	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	38	18	1 331	25 282	1 047	1 818	16 711	51 628	23 677	75 167	1 685
3231	Printing & related support activities .....	2	38	18	1 331	25 282	1 047	1 818	16 711	51 628	23 677	75 167	1 685
32311	Printing .....	3	18	6	623	13 796	468	760	8 547	31 141	14 595	45 630	1 247
32312	Support activities for printing .....	1	20	12	708	11 486	579	1 058	8 164	20 487	9 082	29 537	438
323121	Tradebinding & related work .....	1	19	12	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	28	16	1 270	38 382	894	1 819	23 822	188 933	222 742	409 977	11 554
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	6	5	f	D	D	D	D	D	D	D	8 781
32522	Artificial & synthetic fibers & filaments mfg ..	-	5	4	736	21 755	561	1 263	16 307	91 098	103 364	194 949	D
325222	Noncellulosic organic fiber mfg .....	-	5	4	736	21 755	561	1 263	16 307	91 098	103 364	194 949	D
326	Plastics & rubber products mfg .....	-	14	9	666	18 692	544	1 101	13 376	46 218	135 846	181 730	3 147
333	Machinery mfg .....	-	32	12	636	18 476	482	885	12 337	25 615	32 519	58 370	1 055
3332	Industrial machinery mfg ..	-	25	11	582	16 967	449	831	11 500	23 253	30 832	54 250	980
33329	Other industrial machinery mfg .....	-	25	11	582	16 967	449	831	11 500	23 253	30 832	54 250	980
<b>WILKES COUNTY, GA</b>													
31-33	Manufacturing ....	-	23	12	1 584	36 788	1 359	2 963	28 715	131 005	184 148	315 367	10 087



**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>WILKINSON COUNTY, GA</b>												
	<b>Manufacturing . . . .</b>	-	<b>14</b>	<b>4</b>	<b>1 307</b>	<b>49 707</b>	<b>763</b>	<b>1 648</b>	<b>24 042</b>	<b>279 543</b>	<b>111 644</b>	<b>391 232</b>	<b>D</b>
327	Nonmetallic mineral product mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
327992	Ground or treated mineral & earth mfg. . . . .	-	2	2	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 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>ACWORTH, GA</b>												
	<b>Manufacturing . . . .</b>	1	<b>17</b>	<b>8</b>	<b>622</b>	<b>18 282</b>	<b>460</b>	<b>990</b>	<b>12 470</b>	<b>31 496</b>	<b>42 791</b>	<b>74 220</b>	<b>1 447</b>
	<b>ADEL, GA</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>28</b>	<b>14</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>12 119</b>
321	Wood product mfg . . . . .	-	6	5	895	19 016	774	1 500	13 516	67 040	83 099	147 218	D
	<b>ALBANY, GA</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>76</b>	<b>33</b>	<b>i</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 . . . . .	-	6	5	g	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg . . . . .	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
31191	Snack food mfg . . . . .	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
311911	Roasted nuts & peanut butter mfg . . . . .	-	3	3	704	28 066	563	1 157	18 210	119 176	160 033	285 738	D
312	Beverage & tobacco product mfg . . . . .	-	4	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg . . . . .	-	4	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 . . . . .	-	3	3	f	D	D	D	D	D	D	D	2 498
322	Paper mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	-	2	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
325411	Medicinal & botanical mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) . . . . .	-	1	1	g	D	D	D	D	D	D	D	D

**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>ALBANY, GA—Con.</b>												
	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
	<b>ALMA, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>12</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>
	<b>ALPHARETTA, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>44</b>	<b>19</b>	<b>2 279</b>	<b>88 899</b>	<b>1 196</b>	<b>2 224</b>	<b>36 481</b>	<b>330 203</b>	<b>260 178</b>	<b>589 224</b>	<b>21 874</b>
335	Electrical equipment, appliance, & component mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>AMERICUS, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>27</b>	<b>12</b>	<b>1 921</b>	<b>43 627</b>	<b>1 629</b>	<b>3 057</b>	<b>33 538</b>	<b>109 601</b>	<b>171 641</b>	<b>282 866</b>	<b>3 951</b>
336	Transportation equipment mfg .....	—	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>ATHENS-CLARKE COUNTY, GA (CC) *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>90</b>	<b>34</b>	<b>9 388</b>	<b>234 924</b>	<b>7 520</b>	<b>15 658</b>	<b>168 504</b>	<b>577 408</b>	<b>793 936</b>	<b>1 368 469</b>	<b>94 765</b>
311	Food mfg .....	—	6	2	h	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	2	2	h	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	6	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	—	6	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	—	6	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	—	13	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	6	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
334518	Watch, clock, & part mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	3	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	3	3	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	3	3	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	—	1	1	f	D	D	D	D	D	D	D	D

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

NAICS code	Geographic area and industry	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>ATHENS-CLARKE COUNTY, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>90</b>	<b>34</b>	<b>9 388</b>	<b>234 924</b>	<b>7 520</b>	<b>15 658</b>	<b>168 504</b>	<b>577 408</b>	<b>793 936</b>	<b>1 368 469</b>	<b>94 765</b>
311	Food mfg.....	-	6	2	h	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	h	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	2	2	h	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	-	6	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	6	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	13	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
334518	Watch, clock, & part mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg..	-	3	3	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
335311	Power, distribution, & specialty transformer mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ATLANTA, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>499</b>	<b>178</b>	<b>21 497</b>	<b>688 724</b>	<b>15 058</b>	<b>30 141</b>	<b>406 382</b>	<b>3 093 862</b>	<b>2 776 437</b>	<b>5 821 952</b>	<b>145 687</b>
311	Food mfg.....	2	48	29	5 878	151 335	4 645	8 637	107 696	1 389 327	847 728	2 242 580	54 361
3116	Meat product mfg.....	9	5	4	2 665	45 485	2 384	3 975	37 616	107 743	244 052	351 940	8 437
31161	Animal slaughtering & processing.....	9	5	4	2 665	45 485	2 384	3 975	37 616	107 743	244 052	351 940	8 437
311615	Poultry processing....	9	2	2	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	3	25	14	1 932	64 009	1 407	2 798	43 293	172 219	162 832	340 627	32 334
31181	Bread & bakery product mfg.....	6	19	9	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	2	5	4	1 025	37 661	757	1 450	24 973	110 652	100 009	214 847	26 906
311821	Cookie & cracker mfg..	-	2	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg.....	1	7	5	f	D	D	D	D	D	D	D	8 954
312	Beverage & tobacco product mfg.....	-	7	3	549	20 616	145	321	3 816	74 286	105 177	179 734	5 438
3121	Beverage mfg.....	-	7	3	549	20 616	145	321	3 816	74 286	105 177	179 734	5 438
315	Apparel mfg.....	4	19	7	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	4	14	6	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	11	9	1 390	41 944	993	2 283	26 906	165 405	229 925	386 526	8 676
3222	Converted paper product mfg.....	-	10	8	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	5	4	800	25 996	556	1 431	14 791	80 577	154 034	227 678	D
322212	Folding paperboard box mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	4	136	37	3 463	138 054	2 323	4 874	79 156	304 183	246 284	551 666	26 884
3231	Printing & related support activities.....	4	136	37	3 463	138 054	2 323	4 874	79 156	304 183	246 284	551 666	26 884
32311	Printing.....	4	116	29	2 971	118 628	1 970	4 185	67 820	265 256	237 696	503 870	23 568
323110	Commercial lithographic printing..	4	58	16	2 105	90 141	1 400	2 995	51 938	195 312	191 165	386 101	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>ATLANTA, GA *—Con. Manufacturing—Con.</b>												
325	Chemical mfg .....	1	36	18	1 915	63 359	921	1 555	20 987	314 863	204 645	517 567	8 027
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	13	10	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg .....	2	12	9	f	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg .....	2	8	7	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	—	13	10	688	22 259	507	1 003	14 466	57 132	70 307	126 950	5 931
3261	Plastics product mfg .....	—	12	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	25	9	1 002	31 102	809	1 726	22 730	119 176	75 622	199 293	5 118
332	Fabricated metal product mfg .....	1	50	14	1 362	41 880	994	1 979	26 213	91 626	106 205	198 444	10 156
3323	Architectural & structural metals mfg .....	2	24	9	624	18 492	460	943	12 258	35 517	45 654	80 876	4 856
336	Transportation equipment mfg .....	—	10	6	568	19 757	346	642	8 053	54 432	38 001	103 211	D
337	Furniture & related product mfg .....	—	36	8	1 560	44 683	1 184	2 527	29 612	104 854	61 733	165 755	D
3372	Office furniture (including fixtures) mfg .....	—	15	6	1 382	40 585	1 035	2 229	26 757	95 543	55 275	149 919	3 735
33721	Office furniture (including fixtures) mfg .....	—	15	6	1 382	40 585	1 035	2 229	26 757	95 543	55 275	149 919	3 735
337215	Showcase, partition, shelving, & locker mfg .....	—	7	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	3	49	10	993	29 015	690	1 412	13 944	68 052	45 492	113 652	D
3399	Other miscellaneous mfg ..	2	31	9	805	22 300	569	1 187	10 860	55 326	38 138	93 394	D
	<b>AUGUSTA-RICHMOND COUNTY, GA (CC) *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>134</b>	<b>61</b>	<b>12 084</b>	<b>423 367</b>	<b>8 547</b>	<b>16 841</b>	<b>258 729</b>	<b>2 266 585</b>	<b>1 810 816</b>	<b>4 092 608</b>	<b>117 517</b>
311	Food mfg .....	—	7	6	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	4	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	4	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	4	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	4	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	—	5	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ..	—	4	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	—	4	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	—	4	1	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	—	7	7	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	—	4	4	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	—	22	14	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg .....	—	13	9	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	—	5	5	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	—	4	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>AUGUSTA-RICHMOND COUNTY, GA (CC) *—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg .....	-	7	3	g	D	D	D	D	D	D	D	D
3271	Clay product & refractory mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	4	2	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	14	3	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	8	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	8	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
	<b>AUGUSTA-RICHMOND COUNTY (BALANCE), GA *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>132</b>	<b>60</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>D</b>
311	Food mfg .....	-	7	6	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	4	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	4	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .....	4	2	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	4	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	5	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	4	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	4	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	4	1	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	7	7	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	4	4	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	22	14	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg .....	-	13	9	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	5	5	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	7	3	g	D	D	D	D	D	D	D	D
3271	Clay product & refractory mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
327125	Nonclay refractory 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>AUGUSTA-RICHMOND COUNTY (BALANCE), GA *—Con.</b>														
	<b>Manufacturing—Con.</b>														
336	Transportation equipment mfg .....	—	4	2	g	D	D	D	D	D	D	D	D		
3369	Other transportation equipment mfg .....	—	1	1	g	D	D	D	D	D	D	D	D		
33699	Other transportation equipment mfg .....	—	1	1	g	D	D	D	D	D	D	D	D		
336999	All other transportation equipment mfg .....	—	1	1	g	D	D	D	D	D	D	D	D		
339	Miscellaneous mfg .....	—	14	3	f	D	D	D	D	D	D	D	D		
3391	Medical equipment & supplies mfg .....	—	8	1	f	D	D	D	D	D	D	D	D		
33911	Medical equipment & supplies mfg .....	—	8	1	f	D	D	D	D	D	D	D	D		
339113	Surgical appliance & supplies mfg .....	—	2	1	f	D	D	D	D	D	D	D	D		
	<b>AUSTELL, GA *</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>33</b>	<b>10</b>	<b>g</b>	<b>D</b>	<b>930</b>	<b>2 031</b>	<b>26 773</b>	<b>98 088</b>	<b>82 114</b>	<b>179 750</b>	<b>7 774</b>		
322	Paper mfg .....	—	4	4	g	D	732	24 595	578	1 324	17 835	67 298	51 880	118 673	D
	<b>BAINBRIDGE, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>21</b>	<b>8</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>	<b>14 988</b>	
313	Textile mills .....	—	1	1	g	D	D	D	D	D	D	D	D	D	
3132	Fabric mills .....	—	1	1	g	D	D	D	D	D	D	D	D	D	
31321	Broadwoven fabric mills .....	—	1	1	g	D	D	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills .....	—	1	1	g	D	D	D	D	D	D	D	D	D	
	<b>BARNESVILLE, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>11</b>	<b>5</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>	<b>D</b>	
314	Textile product mills .....	—	2	2	f	D	D	D	D	D	D	D	D	D	
	<b>BAXLEY, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>20</b>	<b>11</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>D</b>	
	<b>BREMEN, GA *</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>12</b>	<b>8</b>	<b>g</b>	<b>D</b>	<b>1 010</b>	<b>16 835</b>	<b>840</b>	<b>1 372</b>	<b>11 796</b>	<b>43 770</b>	<b>45 049</b>	<b>87 939</b>	<b>D</b>
315	Apparel mfg .....	4	5	5	g	D	674	10 202	543	794	6 623	23 415	32 159	55 065	D
3152	Cut & sew apparel mfg ....	4	5	5	g	D	674	10 202	543	794	6 623	23 415	32 159	55 065	D
31522	Men's & boys' cut & sew apparel mfg .....	4	4	4	f	D	D	D	D	D	D	D	D	D	D
	<b>BRUNSWICK, GA</b>														
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>55</b>	<b>21</b>	<b>g</b>	<b>D</b>	<b>3 642</b>	<b>121 413</b>	<b>2 543</b>	<b>5 147</b>	<b>73 495</b>	<b>370 515</b>	<b>594 147</b>	<b>962 012</b>	<b>D</b>
311	Food mfg .....	—	7	3	g	D	D	D	D	D	D	D	D	D	D
3117	Seafood product preparation & packaging ..	—	4	3	g	D	D	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging ..	—	4	3	g	D	D	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing ..	—	4	3	g	D	D	D	D	D	D	D	D	D	D
322	Paper mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	1	1	f	D	D	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	1	1	f	D	D	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>BUFORD, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>36</b>	<b>14</b>	<b>2 746</b>	<b>70 883</b>	<b>1 833</b>	<b>3 583</b>	<b>42 435</b>	<b>237 818</b>	<b>331 639</b>	<b>564 372</b>	<b>24 423</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
31523	Women's & girls' cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	2	1	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
<b>CAIRO, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>10</b>	<b>4</b>	<b>1 299</b>	<b>27 220</b>	<b>1 158</b>	<b>2 086</b>	<b>22 077</b>	<b>71 711</b>	<b>58 163</b>	<b>136 646</b>	<b>7 197</b>
332	Fabricated metal product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CALHOUN, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>70</b>	<b>40</b>	<b>8 807</b>	<b>209 595</b>	<b>6 979</b>	<b>13 998</b>	<b>140 463</b>	<b>658 034</b>	<b>1 396 224</b>	<b>2 099 488</b>	<b>46 411</b>
313	Textile mills .....	-	11	7	1 326	29 481	1 255	2 643	26 606	60 474	141 553	199 416	1 686
3131	Fiber, yarn, & thread mills .	-	6	4	773	19 522	746	1 729	18 478	34 590	124 153	156 131	1 163
31311	Fiber, yarn, & thread mills .....	-	6	4	773	19 522	746	1 729	18 478	34 590	124 153	156 131	1 163
314	Textile product mills .....	-	26	19	5 303	130 187	4 004	8 237	77 566	428 036	554 184	1 039 249	34 129
3141	Textile furnishings mills ....	-	23	16	i	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	21	14	h	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	21	14	h	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	2	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
333	Machinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>CANTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>39</b>	<b>12</b>	<b>1 312</b>	<b>33 504</b>	<b>935</b>	<b>1 714</b>	<b>21 306</b>	<b>104 713</b>	<b>132 325</b>	<b>239 406</b>	<b>6 185</b>
332	Fabricated metal product mfg .....	3	11	3	515	14 592	379	915	11 397	26 502	38 682	66 486	2 226

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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>CARROLLTON, GA</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>55</b>	<b>28</b>	<b>5 750</b>	<b>154 669</b>	<b>4 656</b>	<b>9 202</b>	<b>117 100</b>	<b>462 998</b>	<b>1 282 595</b>	<b>1 739 202</b>	<b>50 473</b>
311	Food mfg . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	-	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
33592	Communication & energy wire & cable mfg . . . . .	-	3	3	g	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
<b>CARTERSVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>79</b>	<b>42</b>	<b>7 012</b>	<b>200 595</b>	<b>5 765</b>	<b>12 504</b>	<b>157 151</b>	<b>1 157 973</b>	<b>1 111 134</b>	<b>2 276 138</b>	<b>99 324</b>
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 . . . . .	-	6	6	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	-	4	4	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills . . . . .	-	4	4	f	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	-	12	7	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills . . . . .	-	9	5	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills . . . . .	-	8	5	g	D	D	D	D	D	D	D	D
314110	Carpet & rug mills . . . . .	-	8	5	g	D	D	D	D	D	D	D	D
3149	Other textile product mills . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
31499	All other textile product mills . . . . .	-	3	2	g	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	-	7	5	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	-	7	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	8	7	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg . . . . .	-	7	7	1 162	31 728	1 024	1 992	25 513	138 866	114 850	255 742	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	-	3	3	721	22 777	628	1 254	18 524	112 611	83 760	198 348	D
326111	Unsupported plastics bag mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	5	3	611	15 339	455	884	11 952	42 233	54 301	95 513	3 254
<b>CEDARTOWN, GA</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>22</b>	<b>12</b>	<b>1 497</b>	<b>42 697</b>	<b>1 199</b>	<b>2 746</b>	<b>32 226</b>	<b>172 505</b>	<b>155 747</b>	<b>327 879</b>	<b>7 328</b>
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
337214	Office furniture (except wood) mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>CHAMBLEE, GA</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>59</b>	<b>19</b>	<b>1 602</b>	<b>55 559</b>	<b>1 205</b>	<b>2 546</b>	<b>32 682</b>	<b>190 956</b>	<b>132 884</b>	<b>322 481</b>	<b>14 426</b>
311	Food mfg . . . . .	-	7	3	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>CHATSWORTH, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>39</b>	<b>15</b>	<b>2 905</b>	<b>59 590</b>	<b>2 562</b>	<b>5 339</b>	<b>49 832</b>	<b>128 715</b>	<b>474 928</b>	<b>613 143</b>	<b>7 588</b>
313	Textile mills . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills . . . . .	—	4	4	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
314	Textile product mills . . . . .	—	23	10	1 990	40 742	1 719	3 601	33 244	94 559	360 415	464 053	6 111
3141	Textile furnishings mills . . . . .	—	23	10	1 990	40 742	1 719	3 601	33 244	94 559	360 415	464 053	6 111
31411	Carpet & rug mills . . . . .	—	23	10	1 990	40 742	1 719	3 601	33 244	94 559	360 415	464 053	6 111
314110	Carpet & rug mills . . . . .	—	23	10	1 990	40 742	1 719	3 601	33 244	94 559	360 415	464 053	6 111
<b>COCHRAN, GA</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	—	<b>5</b>	<b>2</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>
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
335122	Commercial/industrial/institutional electric lighting fixture mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
<b>COLUMBUS, GA (CC) *</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>158</b>	<b>75</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>D</b>
311	Food mfg . . . . .	—	15	7	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	—	5	3	2 137	64 801	1 183	2 576	35 850	296 278	120 719	416 729	10 002
31181	Bread & bakery product mfg . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	4	9	7	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
31311	Fiber, yarn, & thread mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
313111	Yarn spinning mills . . . . .	—	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
3132	Fabric mills . . . . .	6	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . . . .	6	3	3	g	D	D	D	D	D	D	D	16 387
313210	Broadwoven fabric mills . . . . .	6	3	3	g	D	D	D	D	D	D	D	16 387
331	Primary metal mfg . . . . .	—	6	5	g	D	D	D	D	D	D	D	D
3315	Foundries . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	20	11	g	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	2	9	7	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	3	3	3	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg . . . . .	3	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	—	5	5	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
33591	Battery mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg . . . . .	—	6	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <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 CITY, GA *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>158</b>	<b>75</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>D</b>
311	Food mfg.....	-	15	7	h	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	5	3	2 137	64 801	1 183	2 576	35 850	296 278	120 719	416 729	10 002
31181	Bread & bakery product mfg.....	-	3	1	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	1	1	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills.....	4	9	7	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
31311	Fiber, yarn, & thread mills .....	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
313111	Yarn spinning mills ...	-	4	3	1 520	36 743	1 271	2 797	28 392	56 789	130 556	190 375	D
3132	Fabric mills .....	6	4	3	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	6	3	3	g	D	D	D	D	D	D	D	16 387
313210	Broadwoven fabric mills .....	6	3	3	g	D	D	D	D	D	D	D	16 387
331	Primary metal mfg .....	-	6	5	g	D	D	D	D	D	D	D	D
3315	Foundries .....	-	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	-	4	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	20	11	g	D	D	D	D	D	D	D	D
333	Machinery mfg .....	2	9	7	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	3	3	3	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	3	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	5	5	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg ....	-	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg...	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	6	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	-	2	2	f	D	D	D	D	D	D	D	D
	<b>COMMERCE, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>12</b>	<b>4</b>	<b>869</b>	<b>18 895</b>	<b>714</b>	<b>1 404</b>	<b>15 078</b>	<b>96 036</b>	<b>92 934</b>	<b>186 814</b>	<b>2 006</b>
	<b>CONYERS, GA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>80</b>	<b>37</b>	<b>5 667</b>	<b>170 110</b>	<b>3 828</b>	<b>8 024</b>	<b>100 858</b>	<b>563 209</b>	<b>671 202</b>	<b>1 234 935</b>	<b>35 311</b>
326	Plastics & rubber products mfg.....	-	9	9	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	7	7	1 023	30 431	741	1 507	19 485	76 286	65 333	143 354	D
32619	Other plastics product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	6	3	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	-	2	2	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>CONYERS, GA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	8	2	2	g	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
<b>CORDELE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>20</b>	<b>10</b>	<b>1 543</b>	<b>37 340</b>	<b>1 302</b>	<b>2 492</b>	<b>25 398</b>	<b>139 531</b>	<b>98 493</b>	<b>237 726</b>	<b>5 436</b>
<b>CORNELIA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>27</b>	<b>11</b>	<b>2 772</b>	<b>72 645</b>	<b>2 308</b>	<b>4 374</b>	<b>51 871</b>	<b>148 515</b>	<b>186 818</b>	<b>335 145</b>	<b>9 768</b>
311	Food mfg .....	—	4	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	—	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>COVINGTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>43</b>	<b>19</b>	<b>2 599</b>	<b>108 508</b>	<b>1 509</b>	<b>3 300</b>	<b>47 728</b>	<b>575 037</b>	<b>424 402</b>	<b>1 007 776</b>	<b>D</b>
325	Chemical mfg .....	6	5	2	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	9	2	1	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	9	1	1	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	—	4	2	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
<b>CUMMING, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>39</b>	<b>11</b>	<b>1 882</b>	<b>44 637</b>	<b>1 663</b>	<b>3 413</b>	<b>35 186</b>	<b>87 655</b>	<b>188 869</b>	<b>274 528</b>	<b>9 036</b>
311	Food mfg .....	—	2	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>DAHLONEGA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>8</b>	<b>5</b>	<b>748</b>	<b>17 984</b>	<b>670</b>	<b>1 251</b>	<b>14 970</b>	<b>33 764</b>	<b>38 514</b>	<b>72 680</b>	<b>D</b>
<b>DALLAS, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>21</b>	<b>7</b>	<b>669</b>	<b>15 035</b>	<b>573</b>	<b>1 088</b>	<b>12 352</b>	<b>39 462</b>	<b>39 299</b>	<b>78 753</b>	<b>D</b>

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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>DALTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>260</b>	<b>131</b>	<b>21 534</b>	<b>540 217</b>	<b>16 487</b>	<b>35 564</b>	<b>387 741</b>	<b>1 986 334</b>	<b>3 031 617</b>	<b>4 970 370</b>	<b>73 710</b>
311	Food mfg .....	1	5	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	-	25	14	1 790	44 952	1 658	3 548	38 282	73 806	141 738	217 064	3 533
3131	Fiber, yarn, & thread mills .	-	12	6	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	12	6	g	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	8	3	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills	-	4	3	585	14 118	534	1 203	11 770	27 162	74 310	101 512	746
314	Textile product mills .....	-	113	57	14 841	374 310	10 988	24 693	267 967	1 548 532	2 338 836	3 840 055	47 408
3141	Textile furnishings mills ....	-	98	48	j	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	95	46	14 146	361 545	10 380	23 708	259 695	1 475 990	2 241 888	3 669 281	45 526
314110	Carpet & rug mills .....	-	95	46	14 146	361 545	10 380	23 708	259 695	1 475 990	2 241 888	3 669 281	45 526
3149	Other textile product mills .	2	15	9	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	2	15	9	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	2	15	9	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	28	13	1 016	18 822	813	1 427	12 839	38 827	18 024	56 794	1 433
3231	Printing & related support activities .....	2	28	13	1 016	18 822	813	1 427	12 839	38 827	18 024	56 794	1 433
32311	Printing .....	3	12	4	509	10 769	382	631	6 863	24 205	12 480	36 595	1 152
32312	Support activities for printing .....	-	16	9	507	8 053	431	796	5 976	14 622	5 544	20 199	281
323121	Tradebinding & related work .....	-	15	9	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	21	14	1 184	35 537	841	1 723	22 557	180 468	209 076	387 997	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	6	5	f	D	D	D	D	D	D	D	8 781
32522	Artificial & synthetic fibers & filaments mfg ..	-	5	4	736	21 755	561	1 263	16 307	91 098	103 364	194 949	D
325222	Noncellulosic organic fiber mfg .....	-	5	4	736	21 755	561	1 263	16 307	91 098	103 364	194 949	D
326	Plastics & rubber products mfg .....	-	13	9	f	D	D	D	D	D	D	D	D
<b>DORAVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>52</b>	<b>10</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>
336	Transportation equipment mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>DOUGLAS, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>38</b>	<b>20</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 .....	-	5	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	6	4	1 043	21 611	868	1 301	15 895	44 292	81 733	125 696	D
3219	Other wood product mfg ...	-	5	4	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	4	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	7	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	6	4	924	21 353	764	1 459	13 494	64 705	38 280	100 854	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 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>DOUGLASVILLE, GA</b>													
31-33	Manufacturing ....	3	33	9	762	21 011	576	1 152	13 377	57 660	101 290	159 378	7 676
<b>DUBLIN, GA</b>													
31-33	Manufacturing ....	-	32	18	5 162	125 639	4 082	8 644	84 912	367 801	459 083	828 301	D
313	Textile mills .....	-	2	2	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
314	Textile product mills .....	-	2	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ....	-	2	2	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	4	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
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	7	4	855	17 264	759	1 603	12 897	26 873	54 430	81 103	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	7	4	855	17 264	759	1 603	12 897	26 873	54 430	81 103	D
33712	Household & institutional furniture mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>DULUTH, GA</b>													
31-33	Manufacturing ....	3	38	10	900	27 739	689	1 378	14 342	105 905	100 954	207 121	4 823
<b>EASTMAN, GA</b>													
31-33	Manufacturing ....	-	13	4	858	17 388	766	1 323	13 729	49 196	102 525	154 294	D
<b>EAST POINT, GA</b>													
31-33	Manufacturing ....	1	41	14	1 199	40 552	925	1 811	26 944	122 681	158 806	286 652	7 143
<b>EATONTON, GA</b>													
31-33	Manufacturing ....	-	19	13	1 923	54 593	1 650	3 222	43 254	140 262	269 443	409 215	3 519
321	Wood product mfg .....	-	4	4	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
<b>ELBERTON, GA</b>													
31-33	Manufacturing ....	1	69	20	1 457	34 687	1 178	2 361	26 030	136 822	81 016	219 949	3 054
327	Nonmetallic mineral product mfg .....	5	61	16	947	22 787	740	1 523	17 007	40 855	35 926	77 043	D
3279	Other nonmetallic mineral product mfg .....	5	59	15	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	5	59	15	f	D	D	D	D	D	D	D	D
327991	Cut stone & stone product mfg .....	5	58	15	886	21 438	691	1 434	16 045	40 070	28 967	69 157	D
<b>FAIRBURN, GA</b>													
31-33	Manufacturing ....	1	20	6	999	34 159	726	1 417	21 784	127 294	63 783	194 488	5 200

**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>FITZGERALD, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>29</b>	<b>18</b>	<b>3 121</b>	<b>81 626</b>	<b>2 771</b>	<b>5 106</b>	<b>66 650</b>	<b>224 611</b>	<b>357 117</b>	<b>584 161</b>	<b>D</b>
313	Textile mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	4	5	5	1 036	23 917	897	1 671	18 078	48 565	114 056	165 325	2 441
3219	Other wood product mfg ...	7	3	3	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg .....	7	2	2	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	7	2	2	f	D	D	D	D	D	D	D	D
<b>FOREST PARK, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>24</b>	<b>5</b>	<b>751</b>	<b>19 541</b>	<b>606</b>	<b>1 147</b>	<b>14 589</b>	<b>60 626</b>	<b>81 173</b>	<b>142 104</b>	<b>D</b>
311	Food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>FORT OGLETHORPE, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>16</b>	<b>7</b>	<b>922</b>	<b>20 819</b>	<b>654</b>	<b>1 274</b>	<b>13 264</b>	<b>49 801</b>	<b>65 983</b>	<b>115 793</b>	<b>2 093</b>
<b>FORT VALLEY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</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>
314	Textile product mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills ....	-	1	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	2	2	g	D	D	D	D	D	D	D	D
<b>GAINESVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>95</b>	<b>41</b>	<b>7 365</b>	<b>178 159</b>	<b>5 908</b>	<b>11 736</b>	<b>120 512</b>	<b>598 564</b>	<b>949 226</b>	<b>1 543 307</b>	<b>41 475</b>
311	Food mfg .....	-	15	11	2 430	46 516	2 185	4 023	38 910	145 596	557 299	702 008	4 848
3116	Meat product mfg .....	-	4	4	2 077	38 020	1 910	3 439	32 785	78 552	281 028	359 631	3 890
31161	Animal slaughtering & processing .....	-	4	4	2 077	38 020	1 910	3 439	32 785	78 552	281 028	359 631	3 890
311615	Poultry processing .....	-	4	4	2 077	38 020	1 910	3 439	32 785	78 552	281 028	359 631	3 890
321	Wood product mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
32191	Millwork .....	-	3	1	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	8	3	570	21 161	353	778	8 813	69 194	21 078	90 938	D
333	Machinery mfg .....	1	9	5	538	21 874	354	699	13 724	36 438	54 776	92 912	8 977
336	Transportation equipment mfg .....	4	3	3	711	19 808	542	1 097	11 717	61 710	61 422	124 152	D
3363	Motor vehicle parts mfg ...	4	3	3	711	19 808	542	1 097	11 717	61 710	61 422	124 152	D
<b>GARDEN CITY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>17</b>	<b>9</b>	<b>5 734</b>	<b>306 052</b>	<b>3 917</b>	<b>4 798</b>	<b>200 915</b>	<b>608 261</b>	<b>1 719 297</b>	<b>2 361 743</b>	<b>48 817</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
336	Transportation equipment mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336411	Aircraft mfg .....	-	1	1	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>GLENNVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>5</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>196</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
<b>GREENSBORO, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>13</b>	<b>7</b>	<b>765</b>	<b>13 873</b>	<b>693</b>	<b>1 109</b>	<b>11 244</b>	<b>68 133</b>	<b>86 183</b>	<b>148 865</b>	<b>5 428</b>
<b>GRIFFIN, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>48</b>	<b>21</b>	<b>4 780</b>	<b>112 967</b>	<b>3 998</b>	<b>8 206</b>	<b>83 045</b>	<b>381 753</b>	<b>498 241</b>	<b>851 515</b>	<b>20 918</b>
313	Textile mills .....	1	3	3	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	2	2	2	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	431
3141	Textile furnishings mills ....	-	3	3	f	D	D	D	D	D	D	D	431
31412	Curtain & linen mills .....	-	3	3	f	D	D	D	D	D	D	D	431
314129	Other household textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	431
326	Plastics & rubber products mfg .....	-	8	6	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	-	6	5	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	-	3	3	f	D	D	D	D	D	D	D	3 486
326291	Rubber product mfg for mechanical use .....	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>GROVETOWN, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>4</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>12 237</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
31522	Men's & boys' cut & sew apparel mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>HAPEVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>6</b>	<b>2</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>
336	Transportation equipment mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>HARTWELL, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>19</b>	<b>11</b>	<b>2 099</b>	<b>47 048</b>	<b>1 780</b>	<b>3 597</b>	<b>38 069</b>	<b>154 640</b>	<b>158 935</b>	<b>318 045</b>	<b>D</b>
313	Textile mills .....	-	4	4	568	13 281	517	1 124	11 674	66 038	76 989	154 103	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
33633	Motor vehicle steering & suspension component (except spring) mfg ....	-	1	1	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) 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>HAWKINSVILLE, GA</b>													
31-33	Manufacturing ....	-	6	2	f	D	D	D	D	D	D	D	D
<b>HAZLEHURST, GA</b>													
31-33	Manufacturing ....	2	15	5	2 039	41 738	1 682	3 512	36 472	133 491	118 354	251 960	8 381
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>HOMERVILLE, GA</b>													
31-33	Manufacturing ....	-	8	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332431	Metal can mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>JACKSON, GA</b>													
31-33	Manufacturing ....	-	13	8	f	D	D	D	D	D	D	D	D
<b>JEFFERSON, GA</b>													
31-33	Manufacturing ....	1	10	8	1 269	27 954	1 038	1 936	20 038	86 430	103 518	185 347	15 391
313	Textile mills .....	7	2	2	f	D	D	D	D	D	D	D	D
<b>JESUP, GA</b>													
31-33	Manufacturing ....	-	13	6	f	D	D	D	D	D	D	D	2 797
<b>KENNESAW, GA</b>													
31-33	Manufacturing ....	1	42	14	1 009	31 514	662	1 358	15 432	71 043	85 807	156 968	6 438
<b>LA FAYETTE, GA</b>													
31-33	Manufacturing ....	-	21	9	1 351	31 439	1 234	2 369	26 310	58 856	209 336	266 129	D
313	Textile mills .....	-	7	4	f	D	D	D	D	D	D	D	D
<b>LAGRANGE, GA *</b>													
31-33	Manufacturing ....	-	70	46	8 540	257 576	6 597	14 545	160 299	651 225	980 266	1 634 018	74 027
313	Textile mills .....	1	12	10	g	D	D	D	D	D	D	D	D
3132	Fabric mills .....	1	7	6	g	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	3	4	3	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	3	4	3	f	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	7	7	h	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	3	3	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	3	3	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills ....	-	3	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills..	-	4	4	g	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	3	3	g	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	3	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	8	8	1 104	30 371	919	1 682	19 393	122 745	139 428	259 204	12 512
3261	Plastics product mfg .....	-	6	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	-	3	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
3359	Other electrical equipment & component mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg...	-	1	1	f	D	D	D	D	D	D	D	D



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		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>LAWRENCEVILLE, GA</b>													
31-33	Manufacturing ....	-	95	36	3 149	90 787	2 420	5 038	58 857	305 851	301 010	609 476	23 823
<b>LILBURN, GA</b>													
31-33	Manufacturing ....	6	40	7	645	20 182	428	754	9 923	46 898	20 759	68 771	2 282
<b>MCDONOUGH, GA</b>													
31-33	Manufacturing ....	-	22	8	1 900	60 239	1 320	2 610	34 448	258 590	323 321	560 050	7 706
333	Machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	1	1	g	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>MACON, GA *</b>													
31-33	Manufacturing ....	-	154	53	10 650	419 545	8 038	16 389	295 604	3 709 119	1 666 277	5 388 598	205 880
311	Food mfg .....	1	20	8	g	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	9	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	9	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	9	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	1	9	3	f	D	D	D	D	D	D	D	2 426
31182	Cookie, cracker, & pasta mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	-	2	1	h	D	D	D	D	D	D	D	D
3122	Tobacco mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
31222	Tobacco product mfg ...	-	1	1	h	D	D	D	D	D	D	D	D
312221	Cigarette mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	5	5	702	29 676	544	1 192	21 307	87 373	133 308	226 043	D
3221	Pulp, paper, & paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	2	8	5	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	28	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MCRAE, GA</b>													
31-33	Manufacturing ....	-	6	3	g	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MADISON, GA</b>													
31-33	Manufacturing ....	2	11	6	g	D	D	D	D	D	D	D	D

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<b>MANCHESTER, GA *</b>														
31-33	Manufacturing ....	2	7	4	g	D	D	D	D	D	D	D		
339	Miscellaneous mfg.....	2	2	2	f	D	D	D	D	D	D	D		
3399	Other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D		
33999	All other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D		
339999	All other miscellaneous mfg ..	2	2	2	f	D	D	D	D	D	D	D		
<b>MARIETTA, GA</b>														
31-33	Manufacturing ....	-	158	42	g	169 083	3 440	7 268	92 667	462 440	461 753	924 070	39 045	
311	Food mfg.....	-	9	4	g	D	D	D	D	D	D	D		
322	Paper mfg.....	-	8	4	g	626	513	1 185	17 249	59 010	93 320	146 310	6 924	
3222	Converted paper product mfg ..	-	8	4	g	626	513	1 185	17 249	59 010	93 320	146 310	6 924	
323	Printing & related support activities.....	1	47	9	f	636	441	805	13 189	45 106	16 546	61 215	2 853	
3231	Printing & related support activities.....	1	47	9	f	636	441	805	13 189	45 106	16 546	61 215	2 853	
32311	Printing .....	1	43	8	f	D	D	D	D	D	D	D		
339	Miscellaneous mfg.....	-	18	1	f	507	309	630	5 272	58 467	17 233	73 961	D	
<b>MILLEDGEVILLE, GA</b>														
31-33	Manufacturing ....	-	17	6	g	D	D	D	D	D	D	D		
313	Textile mills.....	-	4	3	f	D	D	D	D	D	D	D		
336	Transportation equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D		
3364	Aerospace product & parts mfg ..	-	1	1	f	D	D	D	D	D	D	D		
33641	Aerospace product & parts mfg ..	-	1	1	f	D	D	D	D	D	D	D		
336411	Aircraft mfg ..	-	1	1	f	D	D	D	D	D	D	D		
<b>MILLEN, GA</b>														
31-33	Manufacturing ....	-	4	3	g	1 294	24 966	1 202	1 993	19 101	86 508	66 354	154 319	5 041
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	
315192	Underwear & nightwear knitting mills .....	-	1	1	f	D	D	D	D	D	D	D	D	
<b>MONROE, GA</b>														
31-33	Manufacturing ....	1	25	9	g	1 219	27 675	1 031	2 010	22 214	76 425	54 135	131 079	4 412
<b>MONTEZUMA, GA</b>														
31-33	Manufacturing ....	8	7	3	g	1 114	20 702	976	2 346	15 989	37 009	66 227	101 443	D
311	Food mfg.....	9	1	1	g	D	D	D	D	D	D	D	D	
3114	Fruit & vegetable preserving & specialty food mfg ..	9	1	1	g	D	D	D	D	D	D	D	D	
31141	Frozen food mfg.....	9	1	1	g	D	D	D	D	D	D	D	D	
311411	Frozen fruit, juice, & vegetable mfg.....	9	1	1	g	D	D	D	D	D	D	D	D	
<b>MOULTRIE, GA</b>														
31-33	Manufacturing ....	-	41	12	g	1 660	37 638	1 290	2 480	26 502	99 754	198 348	299 079	13 426
321	Wood product mfg .....	-	6	2	f	D	D	D	D	D	D	D	D	
3219	Other wood product mfg ..	-	3	1	f	D	D	D	D	D	D	D	D	
32199	All other wood product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	
321991	Manufactured home (mobile home) 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>NASHVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</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>
313	Textile mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship & boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship & boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>NEWNAN, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>42</b>	<b>21</b>	<b>4 143</b>	<b>107 475</b>	<b>3 111</b>	<b>6 128</b>	<b>71 913</b>	<b>285 774</b>	<b>572 590</b>	<b>859 609</b>	<b>40 764</b>
331	Primary metal mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
331316	Aluminum extruded product 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
3369	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>NORCROSS, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>89</b>	<b>35</b>	<b>3 241</b>	<b>124 654</b>	<b>1 845</b>	<b>3 458</b>	<b>39 367</b>	<b>421 280</b>	<b>299 437</b>	<b>729 739</b>	<b>28 114</b>
334	Computer & electronic product mfg .....	-	19	9	1 751	80 871	780	1 467	15 976	280 816	235 157	523 158	9 003
3344	Semiconductor & other electronic component mfg .....	-	3	3	f	D	D	D	D	D	D	D	1 405
33441	Semiconductor & other electronic component mfg .....	-	3	3	f	D	D	D	D	D	D	D	1 405
334418	Printed circuit assembly (electronic assembly) mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>OCILLA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>746</b>	<b>13 749</b>	<b>664</b>	<b>1 488</b>	<b>10 523</b>	<b>23 387</b>	<b>18 778</b>	<b>38 540</b>	<b>1 234</b>
<b>PEACHTREE CITY, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>37</b>	<b>21</b>	<b>5 277</b>	<b>161 822</b>	<b>3 701</b>	<b>7 204</b>	<b>89 605</b>	<b>597 925</b>	<b>720 494</b>	<b>1 304 103</b>	<b>39 497</b>
334	Computer & electronic product mfg .....	-	5	5	3 409	104 932	2 286	4 278	51 725	357 202	435 542	775 934	24 678
3343	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	-	2	2	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	-	2	2	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	-	2	2	g	D	D	D	D	D	D	D	D
<b>PERRY, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>8</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>

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<b>31-33</b>	<b>PORT WENTWORTH, GA</b>												
	Manufacturing ....	-	6	4	980	44 209	747	1 982	32 610	221 213	618 422	831 635	D
	<b>QUITMAN, GA</b>												
<b>31-33</b>	Manufacturing ....	-	10	8	g	D	D	D	D	D	D	D	D
	<b>RINCON, GA</b>												
<b>31-33</b>	Manufacturing ....	-	2	1	g	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
	<b>ROCKMART, GA</b>												
<b>31-33</b>	Manufacturing ....	-	6	2	719	17 969	597	1 241	12 667	42 910	47 342	88 649	D
	<b>ROME, GA</b>												
<b>31-33</b>	Manufacturing ....	-	88	40	5 342	154 109	4 301	8 845	102 113	425 547	647 483	1 070 569	54 570
311	Food mfg .....	-	7	6	1 141	26 485	922	2 092	18 486	81 032	158 779	240 148	2 571
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 .....	-	5	4	f	D	D	D	D	D	D	D	D
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 ...	-	3	3	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	9	5	f	D	D	D	D	D	D	D	1 490
3141	Textile furnishings mills ...	-	8	5	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills .....	-	6	4	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills .....	-	6	4	f	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	12	4	f	D	D	D	D	D	D	D	D
	<b>ROSSVILLE, GA</b>												
<b>31-33</b>	Manufacturing ....	3	14	7	f	D	D	D	D	D	D	D	D
313	Textile mills .....	5	6	5	f	D	D	D	D	D	D	D	D
	<b>ROSWELL, GA</b>												
<b>31-33</b>	Manufacturing ....	1	58	5	759	24 694	550	1 176	16 613	85 639	77 806	164 271	2 797
	<b>ROYSTON, GA *</b>												
<b>31-33</b>	Manufacturing ....	-	5	3	f	D	D	D	D	D	D	D	D
	<b>ST. MARYS, GA</b>												
<b>31-33</b>	Manufacturing ....	-	12	3	g	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
	<b>SANDERSVILLE, GA</b>												
<b>31-33</b>	Manufacturing ....	-	11	5	726	15 866	633	1 083	10 099	71 148	17 802	88 875	D

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		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>SAVANNAH, GA</b>													
31-33	Manufacturing ....	-	131	26	4 579	139 340	2 993	5 868	73 719	450 528	814 344	1 279 731	30 758
311	Food mfg .....	1	14	5	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	12	5	1 292	51 688	763	1 765	27 196	194 329	289 308	497 128	18 486
3251	Basic chemical mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	6	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336212	Truck trailer mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SMYRNA, GA</b>													
31-33	Manufacturing ....	3	50	9	1 032	36 606	728	1 450	20 326	75 948	62 647	136 842	4 244
<b>SOCIAL CIRCLE, GA *</b>													
31-33	Manufacturing ....	1	9	8	g	D	D	D	D	D	D	D	D
<b>STATESBORO, GA</b>													
31-33	Manufacturing ....	1	26	10	1 695	39 521	1 488	2 805	30 445	169 079	117 277	286 213	13 618
333	Machinery mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SUWANEE, GA</b>													
31-33	Manufacturing ....	1	25	9	654	17 539	520	1 082	11 739	36 351	34 648	70 500	2 678
<b>SWAINSBORO, GA</b>													
31-33	Manufacturing ....	-	23	10	1 414	25 245	1 171	2 246	18 521	71 069	85 472	156 393	1 429
<b>SYLVANIA, GA</b>													
31-33	Manufacturing ....	-	7	3	f	D	D	D	D	D	D	D	2 512
332	Fabricated metal product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TALLAPOOSA, GA</b>													
31-33	Manufacturing ....	1	13	8	1 385	38 152	1 125	2 228	28 314	94 364	142 095	235 829	5 529
332	Fabricated metal product mfg .....	-	3	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>THOMASTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>17</b>	<b>11</b>	<b>3 639</b>	<b>69 002</b>	<b>2 948</b>	<b>5 766</b>	<b>52 719</b>	<b>207 402</b>	<b>286 392</b>	<b>481 020</b>	<b>13 234</b>
313	Textile mills .....	-	4	4	h	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	1	1	f	D	D	D	D	D	D	D	D
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
3133	Textile & fabric finishing & fabric coating mills .....	-	1	1	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>THOMASVILLE, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>53</b>	<b>25</b>	<b>4 164</b>	<b>91 801</b>	<b>3 131</b>	<b>6 195</b>	<b>57 335</b>	<b>374 101</b>	<b>461 180</b>	<b>831 596</b>	<b>21 446</b>
311	Food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
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
31523	Women's & girls' cut & sew apparel mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg .....	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	11	4	511	13 444	404	746	9 243	32 002	40 605	72 583	1 009
<b>THOMSON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>6</b>	<b>1 154</b>	<b>31 055</b>	<b>994</b>	<b>2 197</b>	<b>25 158</b>	<b>61 020</b>	<b>195 761</b>	<b>256 918</b>	<b>3 912</b>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	1	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313112	Yarn texturing, throwing, & twisting mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TIFTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>35</b>	<b>15</b>	<b>3 249</b>	<b>79 874</b>	<b>2 884</b>	<b>6 108</b>	<b>63 990</b>	<b>162 820</b>	<b>339 507</b>	<b>502 605</b>	<b>10 021</b>
313	Textile mills .....	-	4	4	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	3	3	g	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills .....	-	3	3	g	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	3	3	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
33632	Motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TOCCOA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>32</b>	<b>14</b>	<b>2 073</b>	<b>47 212</b>	<b>1 726</b>	<b>3 450</b>	<b>35 957</b>	<b>126 355</b>	<b>228 670</b>	<b>353 148</b>	<b>6 382</b>
313	Textile mills .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	7	4	635	15 626	529	1 141	11 806	34 796	21 648	55 922	2 336

**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>VALDOSTA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>70</b>	<b>31</b>	<b>4 816</b>	<b>118 939</b>	<b>3 699</b>	<b>7 508</b>	<b>77 337</b>	<b>366 069</b>	<b>916 227</b>	<b>1 272 432</b>	<b>D</b>
311	Food mfg .....	-	6	4	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .....	-	1	1	f	D	D	D	D	D	D	D	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
321	Wood product mfg .....	-	6	4	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	-	5	4	595	11 814	445	857	8 243	27 792	27 695	55 270	3 112
3261	Plastics product mfg .....	-	5	4	595	11 814	445	857	8 243	27 792	27 695	55 270	3 112
336	Transportation equipment mfg .....	-	4	4	709	13 936	612	1 083	10 968	42 742	38 444	80 060	D
<b>VIDALIA, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>27</b>	<b>13</b>	<b>1 988</b>	<b>33 727</b>	<b>1 652</b>	<b>2 407</b>	<b>24 980</b>	<b>73 815</b>	<b>79 236</b>	<b>153 310</b>	<b>5 514</b>
315	Apparel mfg .....	3	3	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	3	3	3	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors .....	-	2	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
<b>VIENNA, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>9</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>5 158</b>
311	Food mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing .....	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>VILLA RICA, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>25</b>	<b>14</b>	<b>1 486</b>	<b>32 171</b>	<b>1 061</b>	<b>2 268</b>	<b>21 492</b>	<b>119 210</b>	<b>159 408</b>	<b>280 718</b>	<b>10 083</b>
326	Plastics & rubber products mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>WARNER ROBINS, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>34</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>10 948</b>
<b>WASHINGTON, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>9</b>	<b>1 356</b>	<b>32 622</b>	<b>1 146</b>	<b>2 559</b>	<b>25 080</b>	<b>120 812</b>	<b>167 482</b>	<b>288 037</b>	<b>9 829</b>
<b>WAYCROSS, GA *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>28</b>	<b>12</b>	<b>1 585</b>	<b>40 469</b>	<b>1 348</b>	<b>2 598</b>	<b>26 595</b>	<b>89 718</b>	<b>131 456</b>	<b>221 333</b>	<b>1 610</b>
321	Wood product mfg .....	-	6	4	1 152	32 178	987	1 965	20 805	74 076	114 116	188 484	1 155
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
<b>WAYNESBORO, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>12</b>	<b>7</b>	<b>998</b>	<b>20 427</b>	<b>558</b>	<b>1 203</b>	<b>11 163</b>	<b>47 534</b>	<b>32 183</b>	<b>81 524</b>	<b>D</b>
<b>WINDER, GA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>25</b>	<b>5</b>	<b>978</b>	<b>30 862</b>	<b>785</b>	<b>1 588</b>	<b>22 040</b>	<b>107 156</b>	<b>187 343</b>	<b>293 571</b>	<b>4 955</b>
336	Transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

**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>31-33</b>	<b>WOODSTOCK, GA</b> <b>Manufacturing . . . .</b>	<b>1</b>	<b>31</b>	<b>9</b>	<b>575</b>	<b>17 042</b>	<b>384</b>	<b>733</b>	<b>6 873</b>	<b>32 328</b>	<b>35 734</b>	<b>67 941</b>	<b>2 051</b>

<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>GEORGIA</b>		<b>GEORGIA—Con.</b>	
Companies <sup>1</sup> .....	8 091	Quantity of electricity purchased for heat and power .....	26 016 973
		Quantity of electricity generated less sold for heat and power .....	4 871 421
All establishments .....	9 083	Total value of shipments .....	124 526 834
Establishments with 1 to 19 employees .....	5 782	Value of resales .....	3 839 479
Establishments with 20 to 99 employees .....	2 107	Value added .....	55 550 096
Establishments with 100 employees or more .....	1 194	Total inventories, beginning of year .....	13 158 626
All employees .....	533 830	Finished goods inventories, beginning of year .....	4 418 014
Total compensation <sup>2</sup> .....	19 390 142	Work-in-process inventories, beginning of year .....	3 343 155
Annual payroll .....	15 534 058	Materials and supplies inventories, beginning of year .....	5 397 457
Total fringe benefits .....	3 856 084	Total inventories, end of year .....	13 645 725
Production workers, average for year .....	410 713	Finished goods inventories, end of year .....	4 714 718
Production workers on March 12 .....	408 278	Work-in-process inventories, end of year .....	3 476 684
Production workers on May 12 .....	409 353	Materials and supplies inventories, end of year .....	5 454 323
Production workers on August 12 .....	412 147	Gross book value of total assets at beginning of year .....	45 705 892
Production workers on November 12 .....	413 074	Total capital expenditures (new and used) .....	4 166 388
Production-worker hours .....	830 245	Capital expenditures for buildings and other structures (new and used) .....	623 926
Production-worker wages .....	10 173 353	Capital expenditures for machinery and equipment (new and used) .....	3 542 462
Total cost of materials .....	69 434 257	Total retirements <sup>2</sup> .....	1 155 210
Cost of materials, parts, containers, etc., consumed .....	63 336 703	Gross book value of total assets at end of year .....	48 717 070
Cost of resales .....	2 936 451	Total depreciation during year <sup>2</sup> .....	3 041 405
Cost of fuels .....	800 221	Total rental payments <sup>2</sup> .....	682 434
Cost of purchased electricity .....	1 180 958	Buildings and other structures rental payments <sup>2</sup> .....	318 921
Cost of contract work .....	1 179 924	Machinery and equipment rental payments <sup>2</sup> .....	363 513

<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.

### **313113 Thread Mills**

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

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

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

### **3132 Fabric Mills**

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

### **31321 Broadwoven Fabric Mills**

This industry comprises establishments primarily engaged in weaving broadwoven fabrics and felts (except tire fabrics and rugs). Establishments in this industry may weave only, weave and finish, or weave, finish, and further fabricate fabric products.

### **313210 Broadwoven Fabric Mills**

This U.S. industry comprises establishments primarily engaged in weaving broadwoven fabrics and felts (except tire fabrics and rugs). Establishments in this industry may weave only, weave and finish, or weave, finish, and further fabricate fabric products.

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

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

### **31322 Narrow Fabric Mills and Schiffli Machine Embroidery**

This industry comprises establishments primarily engaged in one or more of the following: (1) weaving or braiding narrow fabrics; (2) manufacturing Schiffli machine embroideries; and (3) making fabric-covered elastic yarn and thread.

### **313221 Narrow Fabric Mills**

This U.S. industry comprises establishments primarily engaged in (1) weaving or braiding narrow fabrics in their final form or initially made in wider widths that are specially constructed for narrower widths and/or (2) making fabric-covered elastic yarn and thread. Establishments in this industry may weave only; weave and finish; or weave, finish, and further fabricate fabric products

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

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

### **313222 Schiffli Machine Embroidery**

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

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

- 2397 Schiffli machine embroideries

### **31323 Nonwoven Fabric Mills**

This industry comprises establishments primarily engaged in manufacturing nonwoven fabrics and felts. Processes used include bonding and/or interlocking fibers by mechanical, chemical, thermal, or solvent means, or by combinations thereof.

### **313230 Nonwoven Fabric Mills**

This U.S. industry comprises establishments primarily engaged in manufacturing nonwoven fabrics and felts. Processes used include bonding and/or interlocking fibers by mechanical, chemical, thermal, or solvent means, or by combinations thereof.

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

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

### **31324 Knit Fabric Mills**

This industry comprises establishments primarily engaged in one of the following: (1) knitting weft (i.e., circular) and warp (i.e., flat) fabric; (2) knitting and finishing

weft and warp fabric; (3) manufacturing lace; or (4) manufacturing, dyeing, and finishing lace and lace goods. Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

### **313241 Weft Knit Fabric Mills**

This U.S. industry comprises establishments primarily engaged in knitting weft (i.e., circular) fabric or knitting and finishing weft fabric. Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

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

2257 Circular knit fabric mills (pt)

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

### **3132411 Weft Knit Fabric Mills – Manufacturer**

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

### **3132412 Weft Knit Fabric Mills – Jobber**

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

### **3132413 Weft Knit Fabric Mills – Contractor**

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

### **313249 Other Knit Fabric and Lace Mills**

This U.S. industry comprises establishments primarily engaged in one of the following: (1) knitting warp (i.e., flat) fabric; (2) knitting and finishing warp fabric; (3) manufacturing lace; or (4) manufacturing, dyeing, or finishing lace and lace goods. Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

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

2258 Lace and warp knit fabric mills (pt)

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

### **3132491 Other Knit Fabric and Lace Mills – Manufacturer**

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

### **3132492 Other Knit Fabric and Lace Mills – Jobber**

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

### **3132493 Other Knit Fabric and Lace Mills – Contractor**

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

### **3133 Textile and Fabric Finishing and Fabric Coating Mills**

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

### **31331 Textile and Fabric Finishing Mills**

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

### **313311 Broadwoven Fabric Finishing Mills**

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

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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)

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### **325193 Ethyl Alcohol Manufacturing**

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

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

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

### **325199 All Other Basic Organic Chemical Manufacturing**

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

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

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

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

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

#### **32521 Resin and Synthetic Rubber Manufacturing**

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

#### **325211 Plastics Material and Resin Manufacturing**

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

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

2821 Plastics materials and resins

#### **325212 Synthetic Rubber Manufacturing**

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

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

2822 Synthetic rubber

### **32522 Artificial and Synthetic Fibers and Filaments Manufacturing**

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

#### **325221 Cellulosic Organic Fiber Manufacturing**

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

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

2823 Cellulosic manmade fibers

#### **325222 Noncellulosic Organic Fiber Manufacturing**

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

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

2824 Organic fibers, noncellulosic

### **3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing**

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

#### **32531 Fertilizer Manufacturing**

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

#### **325311 Nitrogenous Fertilizer Manufacturing**

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

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

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

2873 Nitrogenous fertilizers

### **325312 Phosphatic Fertilizer Manufacturing**

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

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

2874 Phosphatic fertilizers

### **325314 Fertilizer (Mixing Only) Manufacturing**

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

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

2875 Fertilizers, mixing only

### **32532 Pesticide and Other Agricultural Chemical Manufacturing**

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

### **325320 Pesticide and Other Agricultural Chemical Manufacturing**

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

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

2879 Agricultural chemicals, n.e.c.

### **3254 Pharmaceutical and Medicine Manufacturing**

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

### **32541 Pharmaceutical and Medicine Manufacturing**

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

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

### **325411 Medicinal and Botanical Manufacturing**

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

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

2833 Medicinals and botanicals

### **325412 Pharmaceutical Preparation Manufacturing**

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

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

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

### **325413 In-Vitro Diagnostic Substance Manufacturing**

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

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

2835 Diagnostic substances (pt)

### **325414 Biological Product (Except Diagnostic) Manufacturing**

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

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

2836 Biological products, except diagnostic

### **3255 Paint, Coating, and Adhesive Manufacturing**

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

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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

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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).

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### **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 semfinished shapes, such as blooms, billets, and rods.

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

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

#### **3311114 Iron and Steel Mills – Nonintegrated**

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

#### **331112 Electrometallurgical Ferroalloy Product Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing electrometallurgical ferroalloys. Ferroalloys add critical elements, such as silicon and manganese for carbon steel and chromium, vanadium, tungsten, titanium, and molybdenum for low- and high-alloy metals. Ferroalloys include iron-rich alloys and more pure forms of elements added during the steel manufacturing process that alter or improve the characteristics of the metal being made.

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

3313 Electrometallurgical products (pt)

#### **3312 Steel Product Manufacturing From Purchased Steel**

This industry group comprises establishments primarily engaged in manufacturing iron and steel tube and pipe, drawing steel wire, and rolling or drawing shapes from purchased iron or steel.

#### **33121 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel**

This industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

#### **331210 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel**

This U.S. industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

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

3317 Steel pipe and tubes

### **33122 Rolling and Drawing of Purchased Steel**

This industry comprises establishments primarily engaged in rolling and/or drawing steel shapes, such as plate, sheet, strip, rod, and bar, from purchased steel.

#### **331221 Rolled Steel Shape Manufacturing**

This U.S. industry comprises establishments primarily engaged in rolling or drawing shapes (except wire), such as plate, sheet, strip, rod, and bar, from purchased steel.

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

3316 Cold finishing of steel shapes

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

#### **331222 Steel Wire Drawing**

This U.S. industry comprises establishments primarily engaged in drawing wire from purchased steel.

The data published with NAICS code 331222 include the following SIC industry:

3315 Steel wire and related products (pt)

### **3313 Alumina and Aluminum Production and Processing**

This NAICS industry group includes establishments classified in NAICS Industry 33131, Alumina and Aluminum Production and Processing.

#### **33131 Alumina and Aluminum Production and Processing**

This industry comprises establishments primarily engaged in one or more of the following: (1) refining alumina; (2) making (i.e., the primary production) aluminum from alumina; (3) recovering aluminum from scrap or dross; (4) alloying purchased aluminum; and (5) manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, wire).

##### **331311 Alumina Refining**

This U.S. industry comprises establishments primarily engaged in refining alumina (i.e., aluminum oxide) generally from bauxite.

The data published with NAICS code 331311 include the following SIC industry:

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

### **331312 Primary Aluminum Production**

This U.S. industry comprises establishments primarily engaged in (1) making aluminum from alumina and/or (2) making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, strip). Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

The data published with NAICS code 331312 include the following SIC industry:

3334 Primary aluminum

#### **331314 Secondary Smelting and Alloying of Aluminum**

This U.S. industry comprises establishments primarily engaged in (1) recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or (2) manufacturing alloys, powder, paste, or flake from purchased aluminum.

The data published with NAICS code 331314 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

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

#### **331315 Aluminum Sheet, Plate, and Foil Manufacturing**

This U.S. industry comprises establishments primarily engaged in (1) flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or (2) recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

The data published with NAICS code 331315 include the following SIC industry:

3353 Aluminum sheet, plate, and foil (pt)

#### **331316 Aluminum Extruded Product Manufacturing**

This U.S. industry comprises establishments primarily engaged in (1) extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum; and/or (2) recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

The data published with NAICS code 331316 include the following SIC industry:

3354 Aluminum extruded products

### **331319 Other Aluminum Rolling and Drawing**

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) from purchased aluminum and/or (2) recovering aluminum from scrap and rolling, drawing or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) in integrated mills.

The data published with NAICS code 331319 include the following SIC industries:

3355 Aluminum rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

### **3314 Nonferrous Metal (Except Aluminum) Production and Processing**

This NAICS industry group includes establishments classified in the following NAICS Industries: 33141, Nonferrous Metal (Except Aluminum) Smelting and Refining; 33142, Copper Rolling, Drawing, Extruding, and Alloying; and 33149, Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying.

#### **33141 Nonferrous Metal (Except Aluminum) Smelting and Refining**

This industry comprises establishments primarily engaged in (1) smelting ores into nonferrous metals and/or (2) the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

#### **331411 Primary Smelting and Refining of Copper**

This U.S. industry comprises establishments primarily engaged in (1) smelting copper ore and/or (2) the primary refining of copper by electrolytic methods or other processes. Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

The data published with NAICS code 331411 include the following SIC industry:

3331 Primary copper

#### **331419 Primary Smelting and Refining of Nonferrous Metal (Except Copper and Aluminum)**

This U.S. industry comprises establishments primarily engaged in (1) making (i.e., the primary production) nonferrous metals by smelting ore and/or (2) the primary refining of nonferrous metals by electrolytic methods or other processes.

The data published with NAICS code 331419 include the following SIC industry:

3339 Primary nonferrous metals, n.e.c.

### **33142 Copper Rolling, Drawing, Extruding, and Alloying**

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering copper or copper alloys from scraps; (2) alloying purchased copper; (3) rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, and wire) from purchased copper; and (4) recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, and wire).

#### **331421 Copper Rolling, Drawing, and Extruding**

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire)) from purchased copper; and/or (2) recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire in integrated mills)).

The data published with NAICS code 331421 include the following SIC industry:

3351 Copper rolling and drawing

#### **331422 Copper Wire (Except Mechanical) Drawing**

This U.S. industry comprises establishments primarily engaged in drawing or drawing and insulating communication and energy wire and cable from purchased copper or in integrated secondary smelting and wire drawing plants.

The data published with NAICS code 331422 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

#### **331423 Secondary Smelting, Refining, and Alloying of Copper**

This U.S. industry comprises establishments primarily engaged in (1) recovering copper and copper alloys from scrap and/or (2) alloying purchased copper. Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

The data published with NAICS code 331423 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

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

### **33149 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying**

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap; (2) alloying purchased



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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



### **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)



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 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **333997 Scale and Balance (Except Laboratory) Manufacturing**

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

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

3596 Scales and balances, except laboratory

### **333999 All Other Miscellaneous General-Purpose Machinery Manufacturing**

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

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

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

3569 General industrial machinery, n.e.c.

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

### **334 Computer and Electronic Product Manufacturing**

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

### **3341 Computer and Peripheral Equipment Manufacturing**

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

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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” (nsk) 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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### GEORGIA

**Athens-Clarke County.** See “Athens-Clarke County (consolidated city).”

**Athens-Clarke County (consolidated city)** is coextensive with Clarke County. It includes Winterville and Bogart (part in Clarke County), which are not populous enough for separate tabulation. Therefore, “Athens-Clarke County” refers to the whole consolidated city.

**Atlanta** is in DeKalb and Fulton Counties.

**Auburn** is in Barrow and Gwinnett Counties.

**Augusta-Richmond County (balance).** See “Augusta-Richmond County (consolidated city).”

**Augusta-Richmond County (consolidated city)** is coextensive with Richmond County. It includes Hephzibah, which is tabulated separately. “Augusta-Richmond County (balance),” which is a place equivalent, includes Blythe (part in Richmond County), which is not populous enough for separate tabulation. The governments of Augusta and Richmond County dissolved and consolidated in January 1996.

**Austell** is in Cobb and Douglas Counties.

**Bremen** is in Carroll and Haralson Counties.

**Buford** is in Gwinnett and Hall Counties.

**College Park** is in Clayton and Fulton Counties.

**Columbus.** See “Columbus (consolidated city).”

**Columbus (consolidated city)** is coextensive with Muscogee County. It includes Bibb City, which is not populous enough for separate tabulation. Therefore, “Columbus” refers to the whole consolidated city.

**Fitzgerald** is in Ben Hill and Irwin Counties.

**Fort Oglethorpe** is in Catoosa and Walker Counties.

**Hephzibah.** See “Augusta-Richmond County (consolidated city).”

**LaGrange** is a spelling correction from La Grange.

**Lithia Springs** was incorporated in February 1993.

**Loganville** is in Gwinnett and Walton Counties.

**Macon** is in Bibb and Jones Counties.

**Manchester** is in Meriwether and Talbot Counties.

**Palmetto** is in Coweta and Fulton Counties.

**Perry** is in Houston and Peach Counties.

**Royston** is in Franklin, Hart, and Madison Counties.

**Social Circle** is in Newton and Walton Counties.

**Vidalia** is in Montgomery and Toombs Counties.

**Villa Rica** is in Carroll and Douglas Counties.

**Waycross** is in Pierce and Ware Counties.

**West Point** is in Harris and Troup Counties.



# Appendix E. Metropolitan Areas

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## GEORGIA

### **Albany, GA MSA**

Dougherty County, GA  
Lee County, GA

### **Athens, GA MSA**

Clarke County, GA  
Madison County, GA  
Oconee County, GA

### **Atlanta, GA MSA**

Barrow County, GA  
Bartow County, GA  
Carroll County, GA  
Cherokee County, GA  
Clayton County, GA  
Cobb County, GA  
Coweta County, GA  
DeKalb County, GA  
Douglas County, GA  
Fayette County, GA  
Forsyth County, GA  
Fulton County, GA  
Gwinnett County, GA  
Henry County, GA  
Newton County, GA  
Paulding County, GA  
Pickens County, GA  
Rockdale County, GA  
Spalding County, GA  
Walton County, GA

### **Augusta—Aiken, GA—SC MSA**

Columbia County, GA  
McDuffie County, GA  
Richmond County, GA  
Aiken County, SC  
Edgefield County, SC

### **Chattanooga, TN—GA MSA**

Catoosa County, GA  
Dade County, GA  
Walker County, GA  
Hamilton County, TN  
Marion County, TN

### **Columbus, GA—AL MSA**

Russell County, AL  
Chattahoochee County, GA  
Harris County, GA  
Muscogee County, GA

### **Macon, GA MSA**

Bibb County, GA  
Houston County, GA  
Jones County, GA  
Peach County, GA  
Twiggs County, GA

### **Savannah, GA MSA**

Bryan County, GA  
Chatham County, GA  
Effingham County, GA

