

Tennessee

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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
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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

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

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

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

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

SOURCES FOR MORE INFORMATION

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

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

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

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

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

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

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

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

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

GEOGRAPHIC AREAS COVERED

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

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

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

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

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

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

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

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

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

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

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

DISCLOSURE

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

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

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

Table 1. Industry Statistics for the State: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE													
31-33	Manufacturing	-	7 407	2 906	483 823	14 351 915	375 121	743 819	9 468 824	44 355 170	54 211 506	98 503 080	3 871 129
311	Food mfg	1	338	150	35 817	1 004 842	25 291	50 020	600 675	4 218 796	5 355 469	9 503 309	344 146
3111	Animal food mfg	4	23	14	949	25 316	621	1 009	14 676	101 775	334 587	435 638	5 985
31111	Animal food mfg	4	23	14	949	25 316	621	1 009	14 676	101 775	334 587	435 638	5 985
311111	Dog & cat food mfg	-	4	3	212	6 568	148	326	3 929	32 170	54 760	86 422	1 137
311119	Other animal food mfg	5	19	11	737	18 748	473	683	10 747	69 605	279 827	349 216	4 848
3112	Grain & oilseed milling	-	19	13	2 285	99 895	1 630	3 700	72 066	546 217	1 202 926	1 757 127	53 275
31121	Flour milling & malt mfg	-	8	4	e	D	D	D	D	D	D	D	D
311211	Flour milling	-	8	4	e	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg	-	9	7	1 364	57 494	912	2 197	40 289	305 917	918 206	1 230 363	39 838
311221	Wet corn milling	-	3	2	f	D	D	D	D	D	D	D	D
311222	Soybean processing	-	1	1	e	D	D	D	D	D	D	D	D
311223	Other oilseed processing	-	1	1	c	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending	-	4	3	424	17 078	263	596	10 074	69 285	387 041	460 673	D
31123	Breakfast cereal mfg	-	2	2	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	31	9	3 694	115 553	2 898	5 603	67 679	690 250	403 703	1 082 682	26 403
31133	Confectionery mfg from purchased chocolate	-	21	5	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	21	5	g	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	10	4	g	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg	-	10	4	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	22	9	2 030	58 446	1 667	3 415	40 173	286 545	278 878	565 476	17 359
31141	Frozen food mfg	-	8	5	1 413	43 144	1 291	2 652	29 919	190 936	181 607	372 545	14 430
311411	Frozen fruit, juice, & vegetable mfg	-	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	7	4	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	2	14	4	617	15 302	376	763	10 254	95 609	97 271	192 931	2 929
311421	Fruit & vegetable canning	7	10	3	e	D	D	D	D	D	D	D	D
311422	Specialty canning	-	3	1	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	4	24	14	2 771	84 747	1 291	2 951	33 333	273 269	527 549	799 894	14 001
31151	Dairy product (except frozen) mfg	4	21	12	h	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	5	11	8	2 408	73 921	1 028	2 412	27 128	239 602	422 547	661 529	12 271
311513	Cheese mfg	-	5	2	c	D	D	D	D	D	D	D	499
31152	Ice cream & frozen dessert mfg	-	3	2	c	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	-	3	2	c	D	D	D	D	D	D	D	D
3116	Meat product mfg	1	68	32	7 828	151 868	6 654	12 520	114 674	459 101	1 008 413	1 449 006	25 810
31161	Animal slaughtering & processing	1	68	32	7 828	151 868	6 654	12 520	114 674	459 101	1 008 413	1 449 006	25 810
311611	Animal (except poultry) slaughtering	2	25	6	1 340	26 951	1 014	1 717	15 848	145 837	237 044	380 914	5 228
311612	Meat processed from carcasses	1	23	11	1 046	22 341	750	1 458	14 211	76 152	174 081	250 938	3 257
311613	Rendering & meat byproduct processing	2	6	3	179	5 408	109	238	2 605	23 736	22 758	46 068	2 090
311615	Poultry processing	1	14	12	5 263	97 168	4 781	9 107	82 010	213 376	574 530	771 086	15 235
3118	Bakeries & tortilla mfg	-	106	38	12 844	366 427	7 803	15 354	188 703	1 336 174	1 031 434	2 358 367	107 528
31181	Bread & bakery product mfg	-	94	29	10 426	286 276	5 660	10 697	126 293	741 100	602 301	1 343 592	74 093
311811	Retail bakeries	1	53	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	39	26	10 052	280 217	5 410	10 341	122 726	725 082	591 368	1 316 582	73 409
31182	Cookie, cracker, & pasta mfg	-	12	9	2 418	80 151	2 143	4 657	62 410	595 074	429 133	1 014 775	33 435
311821	Cookie & cracker mfg	-	5	5	894	27 853	785	1 604	18 776	143 927	65 830	209 179	9 174
311822	Flour mixes & dough mfg from purchased flour	-	7	4	1 524	52 298	1 358	3 053	43 634	451 147	363 303	805 596	24 261

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3119	Other food mfg	1	41	21	3 407	102 493	2 720	5 460	69 304	525 200	567 368	1 054 245	93 764
31191	Snack food mfg	—	9	5	2 123	70 446	1 757	3 670	49 958	359 165	394 000	714 882	D
311919	Other snack food mfg	—	9	5	2 123	70 446	1 757	3 670	49 958	359 165	394 000	714 882	D
31192	Coffee & tea mfg	2	4	2	c	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	2	4	2	c	D	D	D	D	D	D	D	D
31193	Flavoring syrup & concentrate mfg	—	3	2	c	D	D	D	D	D	D	D	D
311930	Flavoring syrup & concentrate mfg	—	3	2	c	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	7	9	4	443	11 041	353	709	7 606	48 066	55 794	103 984	D
311941	Mayonnaise, dressing, & other prepared sauce mfg	8	6	3	e	D	D	D	D	D	D	D	2 082
31199	All other food mfg	1	16	8	563	14 502	405	758	7 774	80 016	70 652	150 488	D
311991	Perishable prepared food mfg	—	5	3	254	6 220	163	285	2 286	15 248	12 527	27 585	D
311999	All other miscellaneous food mfg	1	11	5	309	8 282	242	473	5 488	64 768	58 125	122 903	D
312	Beverage & tobacco product mfg	—	57	25	3 792	133 749	2 267	4 804	72 808	1 714 020	981 875	2 686 104	51 125
3121	Beverage mfg	1	49	19	3 104	105 273	1 710	3 695	55 864	906 266	807 945	1 714 138	D
31211	Soft drink & ice mfg	2	36	14	g	D	D	D	D	D	D	D	26 592
312111	Soft drink mfg	2	16	12	2 001	61 689	959	2 156	25 764	264 414	495 653	759 062	25 602
31212	Breweries	—	3	2	f	D	D	D	D	D	D	D	D
312120	Breweries	—	3	2	f	D	D	D	D	D	D	D	D
31214	Distilleries	—	3	3	e	D	D	D	D	D	D	D	D
312140	Distilleries	—	3	3	e	D	D	D	D	D	D	D	D
3122	Tobacco mfg	—	8	6	688	28 476	557	1 109	16 944	807 754	173 930	971 966	D
31221	Tobacco stemming & redrying	—	2	1	c	D	D	D	D	D	D	D	D
312210	Tobacco stemming & redrying	—	2	1	c	D	D	D	D	D	D	D	D
31222	Tobacco product mfg	—	6	5	f	D	D	D	D	D	D	D	D
312229	Other tobacco product mfg	—	6	5	f	D	D	D	D	D	D	D	D
313	Textile mills	—	105	63	12 181	333 417	10 247	20 672	241 463	773 273	985 173	1 757 474	75 318
3131	Fiber, yarn, & thread mills	—	17	14	2 876	73 053	2 706	5 761	65 115	153 193	281 813	434 922	11 598
31311	Fiber, yarn, & thread mills	—	17	14	2 876	73 053	2 706	5 761	65 115	153 193	281 813	434 922	11 598
313111	Yarn spinning mills	—	11	9	2 094	56 174	1 978	4 223	50 294	124 705	223 164	347 807	10 292
313112	Yarn texturing, throwing, & twisting mills	—	4	3	f	D	D	D	D	D	D	D	D
3132	Fabric mills	—	45	29	6 748	205 579	5 380	10 802	136 024	494 211	569 166	1 057 823	52 857
31321	Broadwoven fabric mills	—	15	8	2 282	58 835	2 028	4 116	47 907	130 827	127 200	251 489	9 974
313210	Broadwoven fabric mills	—	15	8	2 282	58 835	2 028	4 116	47 907	130 827	127 200	251 489	9 974
31322	Narrow fabric mills & schiffli machine embroidery	—	8	4	434	9 567	369	712	6 694	27 677	11 406	39 127	D
313221	Narrow fabric mills	—	8	4	434	9 567	369	712	6 694	27 677	11 406	39 127	D
31323	Nonwoven fabric mills	—	7	6	1 441	68 203	972	2 015	40 766	190 600	289 470	479 118	D
313230	Nonwoven fabric mills	—	7	6	1 441	68 203	972	2 015	40 766	190 600	289 470	479 118	D
31324	Knit fabric mills	—	15	11	2 591	68 974	2 011	3 959	40 657	145 107	141 090	288 089	14 874
313241	Weft knit fabric mills	—	12	10	g	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills	—	3	1	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	4	43	20	2 557	54 785	2 161	4 109	40 324	125 869	134 194	264 729	10 863
31331	Textile & fabric finishing mills	3	34	16	1 972	36 728	1 704	3 275	27 553	89 670	75 177	165 698	7 415
313311	Broadwoven fabric finishing mills	8	24	6	609	9 064	509	884	6 828	17 991	10 885	28 561	D
313312	Textile & fabric finishing mills	2	10	10	1 363	27 664	1 195	2 391	20 725	71 679	64 292	137 137	D
31332	Fabric coating mills	5	9	4	585	18 057	457	834	12 771	36 199	59 017	99 031	3 448
313320	Fabric coating mills	5	9	4	585	18 057	457	834	12 771	36 199	59 017	99 031	3 448

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE—Con.													
31-33	Manufacturing—Con.												
314	Textile product mills.....	-	166	58	6 268	135 059	5 183	9 734	92 122	403 396	422 455	825 212	38 958
3141	Textile furnishings mills....	-	69	12	1 916	37 666	1 709	3 651	30 858	145 352	191 079	336 017	3 724
31411	Carpet & rug mills	-	11	4	786	16 489	707	1 701	14 102	65 189	132 207	197 461	1 342
314110	Carpet & rug mills	-	11	4	786	16 489	707	1 701	14 102	65 189	132 207	197 461	1 342
31412	Curtain & linen mills.....	-	58	8	1 130	21 177	1 002	1 950	16 756	80 163	58 872	138 556	2 382
314121	Curtain & drapery mills	1	48	3	333	5 453	295	556	4 139	8 866	10 675	20 271	188
314129	Other household textile product mills	-	10	5	797	15 724	707	1 394	12 617	71 297	48 197	118 285	2 194
3149	Other textile product mills..	-	97	46	4 352	97 393	3 474	6 083	61 264	258 044	231 376	489 195	35 234
31491	Textile bag & canvas mills	-	40	18	1 168	22 480	915	1 612	12 247	50 904	37 727	87 454	1 795
314911	Textile bag mills	-	13	8	633	10 007	516	904	6 211	21 495	16 118	36 396	672
314912	Canvas & related product mills	1	27	10	535	12 473	399	708	6 036	29 409	21 609	51 058	1 123
31499	All other textile product mills	-	57	28	3 184	74 913	2 559	4 471	49 017	207 140	193 649	401 741	33 439
314991	Rope, cordage, & twine mills	4	10	3	c	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	45	23	2 518	54 621	2 057	3 558	36 567	128 552	141 154	271 041	D
315	Apparel mfg	1	354	229	36 613	615 786	31 375	57 561	445 829	1 560 033	1 590 315	3 143 871	42 919
3151	Apparel knitting mills	1	35	22	4 338	78 189	3 826	7 842	59 815	173 682	142 302	321 255	8 799
31511	Hosiery & sock mills	-	20	14	3 327	60 931	2 873	5 941	45 566	153 220	118 761	276 281	7 818
315111	Sheer hosiery mills	-	3	2	f	D	D	D	D	D	D	D	816
315119	Other hosiery & sock mills	1	17	12	g	D	D	D	D	D	D	D	7 002
31519	Other apparel knitting mills	3	15	8	1 011	17 258	953	1 901	14 249	20 462	23 541	44 974	981
315191	Outerwear knitting mills	2	11	7	f	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills	9	4	1	c	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	1	278	193	30 525	508 461	26 036	46 598	364 196	1 319 070	1 306 683	2 613 267	32 178
31521	Cut & sew apparel contractors	2	121	73	7 292	92 553	6 399	10 383	74 026	163 207	29 974	191 804	3 875
315211	Men's & boys' cut & sew apparel contractors	1	54	42	5 010	66 895	4 372	7 207	53 324	109 249	21 059	129 393	3 047
315212	Women's, girls', & infants' cut & sew apparel contractors ..	3	67	31	2 282	25 658	2 027	3 176	20 702	53 958	8 915	62 411	828
31522	Men's & boys' cut & sew apparel mfg	1	96	75	13 867	233 660	12 283	22 405	181 902	670 834	741 208	1 412 911	17 311
315221	Men's & boys' cut & sew underwear & nightwear mfg	-	7	6	1 726	29 911	1 528	3 035	23 420	79 849	76 173	154 686	2 229
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	6	5	4	1 268	24 476	1 077	1 950	17 660	42 127	88 008	129 881	1 382
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	1	34	25	3 109	47 305	2 654	4 914	37 302	176 456	129 598	314 942	3 022
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	1	17	17	3 446	62 406	3 163	5 596	49 232	165 165	270 388	433 009	6 718
315225	Men's & boys' cut & sew work clothing mfg	-	20	18	3 605	57 448	3 222	5 694	45 035	187 887	150 485	334 464	3 435
315228	Men's & boys' cut & sew other outerwear mfg	1	13	5	713	12 114	639	1 216	9 253	19 350	26 556	45 929	525
31523	Women's & girls' cut & sew apparel mfg	-	47	31	6 737	106 419	5 773	10 812	84 350	358 334	398 225	739 416	5 480
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	3	8	5	f	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	-	9	6	404	4 398	312	449	3 182	9 288	3 105	11 959	60
315233	Women's & girls' cut & sew dress mfg	1	7	2	c	D	D	D	D	D	D	D	12
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	6	5	1 106	22 148	656	1 459	10 545	33 847	73 312	105 950	263
315239	Women's & girls' cut & sew other outerwear mfg	-	17	13	4 429	68 294	4 175	7 590	63 076	295 253	305 262	583 645	D
31529	Other cut & sew apparel mfg	-	14	14	2 629	75 829	1 581	2 998	23 918	126 695	137 276	269 136	5 512
315291	Infants' cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg	-	9	9	1 908	65 050	923	1 760	14 452	85 585	97 760	188 485	4 843

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE—Con.													
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg	—	41	14	1 750	29 136	1 513	3 121	21 818	67 281	141 330	209 349	1 942
31599	Apparel accessories & other apparel mfg	—	41	14	1 750	29 136	1 513	3 121	21 818	67 281	141 330	209 349	1 942
315991	Hat, cap, & millinery mfg	3	7	4	200	3 415	170	348	2 553	5 447	3 881	9 329	D
315992	Glove & mitten mfg ...	—	3	3	293	3 875	234	424	3 100	6 390	7 591	14 324	D
315999	Other apparel accessories & other apparel mfg	—	31	7	1 257	21 846	1 109	2 349	16 165	55 444	129 858	185 696	1 743
316	Leather & allied product mfg .	—	44	22	2 899	53 520	2 469	4 361	38 114	140 928	116 190	259 249	5 340
3161	Leather & hide tanning & finishing	—	6	2	149	3 009	120	263	2 164	2 348	8 617	12 250	D
31611	Leather & hide tanning & finishing	—	6	2	149	3 009	120	263	2 164	2 348	8 617	12 250	D
316110	Leather & hide tanning & finishing	—	6	2	149	3 009	120	263	2 164	2 348	8 617	12 250	D
3162	Footwear mfg	—	15	10	1 619	26 294	1 446	2 408	20 935	67 416	63 034	131 348	D
31621	Footwear mfg	—	15	10	1 619	26 294	1 446	2 408	20 935	67 416	63 034	131 348	D
316211	Rubber & plastics footwear mfg	—	3	1	c	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg .	—	8	7	1 273	21 425	1 147	1 829	16 782	49 158	47 035	97 016	1 438
316219	Other footwear mfg ...	—	2	1	c	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	1	23	10	1 131	24 217	903	1 690	15 015	71 164	44 539	115 651	2 168
31699	Other leather & allied product mfg	1	23	10	1 131	24 217	903	1 690	15 015	71 164	44 539	115 651	2 168
316991	Luggage mfg	—	3	2	e	D	D	D	D	D	D	D	D
316992	Women's handbag & purse mfg	—	2	1	e	D	D	D	D	D	D	D	D
316999	All other leather good mfg	4	17	7	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	658	179	18 563	411 372	15 825	30 021	300 604	940 942	1 475 097	2 402 457	66 891
3211	Sawmills & wood preservation	3	259	55	3 809	78 882	3 209	5 723	58 057	179 005	328 438	501 607	23 798
32111	Sawmills & wood preservation	3	259	55	3 809	78 882	3 209	5 723	58 057	179 005	328 438	501 607	23 798
321113	Sawmills	3	249	50	3 420	72 558	2 880	5 079	53 410	158 412	242 072	400 326	20 120
321114	Wood preservation ...	3	10	5	389	6 324	329	644	4 647	20 593	86 366	101 281	3 678
3212	Veneer, plywood, & engineered wood product mfg	2	34	11	777	19 499	605	1 251	11 026	43 445	51 243	94 543	3 281
32121	Veneer, plywood, & engineered wood product mfg	2	34	11	777	19 499	605	1 251	11 026	43 445	51 243	94 543	3 281
321211	Hardwood veneer & plywood mfg	1	5	4	123	2 391	102	204	1 907	4 289	6 758	11 076	D
321214	Truss mfg	2	26	7	615	15 546	472	989	8 491	35 994	41 639	77 408	2 590
3219	Other wood product mfg ...	1	365	113	13 977	312 991	12 011	23 047	231 521	718 492	1 095 416	1 806 307	39 812
32191	Millwork	—	125	46	6 714	143 635	5 877	11 516	110 677	330 642	526 994	854 107	21 060
321911	Wood window & door mfg	—	22	10	1 469	33 379	1 302	2 424	27 144	75 509	111 223	186 220	5 121
321912	Cut stock, resawing lumber, & planing....	1	70	21	2 058	40 930	1 798	3 486	31 924	75 310	106 773	182 285	4 370
321918	Other millwork (including flooring) ...	—	33	15	3 187	69 326	2 777	5 606	51 609	179 823	308 998	485 602	11 569
32192	Wood container & pallet mfg	3	128	22	1 525	25 376	1 294	2 229	17 864	52 453	66 740	118 972	3 798
321920	Wood container & pallet mfg	3	128	22	1 525	25 376	1 294	2 229	17 864	52 453	66 740	118 972	3 798
32199	All other wood product mfg	1	112	45	5 738	143 980	4 840	9 302	102 980	335 397	501 682	833 228	14 954
321991	Manufactured home (mobile home) mfg ..	—	16	16	3 547	99 478	3 049	6 005	72 488	249 352	413 878	659 361	9 696
321992	Prefabricated wood building mfg	3	26	11	916	22 296	685	1 379	13 918	46 941	50 713	97 242	2 337
321999	All other miscellaneous wood product mfg ...	2	70	18	1 275	22 206	1 106	1 918	16 574	39 104	37 091	76 625	2 921
322	Paper mfg	—	155	120	17 821	615 817	13 724	29 323	412 636	1 683 382	2 231 828	3 897 797	237 999
3221	Pulp, paper, & paperboard mills	—	16	16	4 701	238 188	3 609	7 960	172 718	743 245	863 498	1 599 556	127 868
32211	Pulp mills	—	3	3	500	28 809	282	590	12 101	66 814	79 488	151 543	D
322110	Pulp mills	—	3	3	500	28 809	282	590	12 101	66 814	79 488	151 543	D
32212	Paper mills	—	7	7	3 046	147 326	2 414	5 244	111 927	463 789	548 834	1 000 276	D
322121	Paper (except newsprint) mills	—	6	6	g	D	D	D	D	D	D	D	D
322122	Newsprint mills	—	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	6	6	1 155	62 053	913	2 126	48 690	212 642	235 176	447 737	40 574
322130	Paperboard mills	—	6	6	1 155	62 053	913	2 126	48 690	212 642	235 176	447 737	40 574

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	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
322	Paper mfg—Con.												
3222	Converted paper product mfg	-	139	104	13 120	377 629	10 115	21 363	239 918	940 137	1 368 330	2 298 241	110 131
32221	Paperboard container mfg	-	93	71	6 987	209 767	5 473	11 872	136 399	523 831	810 324	1 333 290	58 302
322211	Corrugated & solid fiber box mfg	-	64	49	4 261	127 289	3 251	6 702	75 654	274 928	459 508	735 463	27 478
322212	Folding paperboard box mfg	-	20	15	1 952	62 637	1 522	3 709	44 327	178 697	211 423	389 474	D
322214	Fiber can, tube, drum, & similar products mfg	-	7	6	e	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg ...	-	1	1	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	25	18	3 862	112 357	2 884	6 308	64 540	283 998	386 007	665 197	37 339
322221	Coated & laminated packaging paper & plastics film mfg	-	5	3	421	15 055	295	658	9 525	46 807	109 286	155 507	4 277
322222	Coated & laminated paper mfg	-	12	9	2 497	73 145	1 758	3 833	36 816	173 594	195 907	366 327	29 443
322224	Uncoated paper & multiwall bag mfg	-	8	6	944	24 157	831	1 817	18 199	63 597	80 814	143 363	3 619
32223	Stationery product mfg ..	-	13	10	1 967	49 126	1 574	2 816	34 577	119 459	158 561	273 227	13 291
322231	Die-cut paper & paperboard office supplies mfg	-	5	3	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	-	6	6	1 100	28 297	866	1 655	20 361	61 829	73 186	132 652	6 752
322233	Stationery, tablet, & related product mfg ..	-	2	1	c	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	8	5	304	6 379	184	367	4 402	12 849	13 438	26 527	1 199
322291	Sanitary paper product mfg	-	1	1	c	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	-	7	4	c	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	869	204	25 074	756 236	19 829	39 741	514 221	1 654 129	1 217 762	2 862 069	146 001
3231	Printing & related support activities	1	869	204	25 074	756 236	19 829	39 741	514 221	1 654 129	1 217 762	2 862 069	146 001
32311	Printing	1	770	178	22 884	678 280	18 130	36 173	462 352	1 515 054	1 171 023	2 676 589	137 578
323110	Commercial lithographic printing ..	2	378	93	10 817	335 794	8 545	16 968	218 743	713 778	524 648	1 223 596	65 262
323111	Commercial gravure printing	-	16	5	1 735	66 117	1 498	3 233	53 897	175 538	180 029	359 319	16 051
323112	Commercial flexographic printing ..	2	21	12	976	35 311	721	1 461	18 004	69 764	69 488	138 452	10 852
323113	Commercial screen printing	-	87	20	1 927	47 141	1 445	3 120	32 361	67 699	110 356	184 124	7 138
323114	Quick printing	2	142	8	909	19 613	635	919	11 048	43 211	24 611	67 915	3 328
323116	Manifold business form printing	2	30	16	1 159	33 378	831	1 651	21 299	138 217	80 788	218 567	4 613
323117	Book printing	-	20	13	4 348	112 859	3 747	7 355	90 427	252 005	140 886	388 506	27 024
323118	Blankbook, looseleaf binder, & device mfg ..	5	4	4	249	5 586	170	441	3 402	8 651	10 470	20 092	525
323119	Other commercial printing	7	65	7	712	20 477	512	974	12 139	42 785	27 998	70 859	2 620
32312	Support activities for printing	4	99	26	2 190	77 956	1 699	3 568	51 869	139 075	46 739	185 480	8 423
323121	Tradebinding & related work	6	27	7	1 055	30 484	913	1 997	24 791	49 537	28 604	77 995	3 271
323122	Prepress services	2	72	19	1 135	47 472	786	1 571	27 078	89 538	18 135	107 485	5 152
324	Petroleum & coal products mfg	-	51	15	1 291	47 943	822	1 699	28 167	195 354	1 737 868	1 938 611	40 948
3241	Petroleum & coal products mfg	-	51	15	1 291	47 943	822	1 699	28 167	195 354	1 737 868	1 938 611	40 948
32411	Petroleum refineries	-	1	1	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	1	1	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, & saturated materials mfg	2	43	12	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture & block mfg	3	40	10	f	D	D	D	D	D	D	D	D
324122	Asphalt shingle & coating materials mfg	-	3	2	c	D	D	D	D	D	D	D	D
32419	Other petroleum & coal products mfg	7	7	2	113	3 926	70	128	1 917	7 699	14 982	22 953	340
324191	Petroleum lubricating oil & grease mfg	7	7	2	113	3 926	70	128	1 917	7 699	14 982	22 953	340

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg	-	288	126	34 184	1 516 826	19 462	39 912	726 017	5 868 036	4 184 755	10 115 093	611 157
3251	Basic chemical mfg	-	62	29	18 987	986 545	9 517	19 154	426 331	3 186 547	2 233 134	5 476 430	470 789
32512	Industrial gas mfg	-	14	3	c	D	D	D	D	D	D	D	D
325120	Industrial gas mfg	-	14	3	c	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg	-	4	3	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg	-	3	2	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	22	10	5 489	258 854	1 894	3 650	74 179	1 110 649	366 883	1 475 215	54 051
325188	All other basic inorganic chemical mfg	-	22	10	5 489	258 854	1 894	3 650	74 179	1 110 649	366 883	1 475 215	54 051
32519	Other basic organic chemical mfg	-	22	13	12 432	673 961	6 853	14 072	315 287	1 578 460	1 601 336	3 239 567	377 076
325191	Gum & wood chemical mfg	1	3	1	c	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	18	12	12 281	668 893	6 721	13 843	310 958	1 552 880	1 589 266	3 202 145	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	21	15	3 396	140 495	2 512	5 434	98 464	398 087	553 973	968 779	55 475
32521	Resin & synthetic rubber mfg	1	14	10	977	45 442	679	1 468	29 439	203 270	344 794	546 577	25 345
325211	Plastics material & resin mfg	1	10	8	f	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg	-	4	2	c	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg	-	7	5	2 419	95 053	1 833	3 966	69 025	194 817	209 179	422 202	30 130
325221	Cellulosic organic fiber mfg	-	2	2	f	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	5	3	g	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg	-	17	6	523	19 191	360	704	11 078	59 302	124 682	183 147	3 702
32531	Fertilizer mfg	-	10	2	244	10 977	180	391	6 877	40 882	88 218	128 993	2 764
325311	Nitrogenous fertilizer mfg	-	1	1	c	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	7	4	279	8 214	180	313	4 201	18 420	36 464	54 154	938
325320	Pesticide & other agricultural chemical mfg	-	7	4	279	8 214	180	313	4 201	18 420	36 464	54 154	938
3254	Pharmaceutical & medicine mfg	-	24	13	3 404	117 212	1 838	3 176	52 643	1 414 037	296 391	1 698 645	21 172
32541	Pharmaceutical & medicine mfg	-	24	13	3 404	117 212	1 838	3 176	52 643	1 414 037	296 391	1 698 645	21 172
325412	Pharmaceutical preparation mfg	-	12	8	3 196	111 175	1 723	2 982	49 527	1 398 079	285 937	1 671 882	19 468
325414	Biological product (except diagnostic) mfg	2	6	3	c	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	36	17	1 271	45 665	671	1 372	19 124	145 787	263 231	410 570	9 364
32551	Paint & coating mfg	2	25	12	929	31 455	504	990	11 790	87 862	185 791	276 333	6 595
325510	Paint & coating mfg	2	25	12	929	31 455	504	990	11 790	87 862	185 791	276 333	6 595
32552	Adhesive mfg	3	11	5	342	14 210	167	382	7 334	57 925	77 440	134 237	2 769
325520	Adhesive mfg	3	11	5	342	14 210	167	382	7 334	57 925	77 440	134 237	2 769
3256	Soap, cleaning compound, & toilet preparation mfg	2	41	15	3 335	93 330	2 362	5 324	52 555	249 071	261 438	512 312	23 128
32561	Soap & cleaning compound mfg	4	34	10	1 108	31 385	613	1 209	13 298	110 484	112 190	221 862	D
325611	Soap & other detergent mfg	6	15	5	619	19 622	258	514	7 136	69 446	55 926	124 721	4 061
325612	Polish & other sanitation good mfg	2	15	4	439	9 728	317	614	4 816	35 200	34 083	68 333	5 319
32562	Toilet preparation mfg	-	7	5	2 227	61 945	1 749	4 115	39 257	138 587	149 248	290 450	D
325620	Toilet preparation mfg	-	7	5	2 227	61 945	1 749	4 115	39 257	138 587	149 248	290 450	D
3259	Other chemical product mfg	1	87	31	3 268	114 388	2 202	4 748	65 822	415 205	451 906	865 210	27 527
32591	Printing ink mfg	5	28	5	e	D	D	D	D	D	D	D	D
325910	Printing ink mfg	5	28	5	e	D	D	D	D	D	D	D	D
32592	Explosives mfg	-	4	2	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	-	4	2	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	-	55	24	2 271	71 222	1 635	3 405	44 247	326 886	350 445	674 966	24 661
325991	Custom compounding of purchased resin	-	31	14	1 373	44 392	1 020	2 142	28 526	206 447	281 610	487 089	16 561
325992	Photographic film, paper, plate, & chemical mfg	1	4	3	c	D	D	D	D	D	D	D	782
325998	All other miscellaneous chemical product & preparation mfg	2	20	7	f	D	D	D	D	D	D	D	7 318

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	—	390	227	35 057	1 021 114	28 181	58 833	723 243	2 769 224	3 039 780	5 801 573	248 008
3261	Plastics product mfg	1	307	182	21 062	529 013	16 702	33 487	354 267	1 482 648	1 688 612	3 164 621	139 706
32611	Unsupported plastics film, sheet, & bag mfg	1	32	21	2 025	61 817	1 641	3 451	46 293	159 759	246 884	408 200	23 189
326111	Unsupported plastics bag mfg	1	12	8	762	19 013	630	1 179	14 536	59 468	64 454	122 073	14 619
326112	Unsupported plastics packaging film & sheet mfg	—	4	4	583	20 560	486	1 075	16 558	49 398	86 765	139 108	D
326113	Unsupported plastics film & sheet (except packaging) mfg	1	16	9	680	22 244	525	1 197	15 199	50 893	95 665	147 019	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	23	10	1 117	32 498	875	1 961	22 386	59 705	93 683	153 327	6 461
326121	Unsupported plastics profile shape mfg	1	15	6	549	14 347	436	959	9 474	33 870	41 507	75 081	1 915
326122	Plastics pipe & pipe fitting mfg	—	8	4	568	18 151	439	1 002	12 912	25 835	52 176	78 246	4 546
32613	Laminated plastics plate, sheet, & shape mfg	—	8	3	661	21 762	566	1 544	17 441	60 006	122 156	183 014	4 416
326130	Laminated plastics plate, sheet, & shape mfg	—	8	3	661	21 762	566	1 544	17 441	60 006	122 156	183 014	4 416
32614	Polystyrene foam product mfg	—	15	8	553	16 278	308	620	6 009	83 893	54 131	135 779	4 277
326140	Polystyrene foam product mfg	—	15	8	553	16 278	308	620	6 009	83 893	54 131	135 779	4 277
32615	Urethane & other foam product (except polystyrene) mfg	2	31	21	2 577	65 539	2 127	3 887	43 901	158 233	216 011	373 176	14 322
326150	Urethane & other foam product (except polystyrene) mfg	2	31	21	2 577	65 539	2 127	3 887	43 901	158 233	216 011	373 176	14 322
32616	Plastics bottle mfg	—	6	6	626	18 557	559	1 240	15 627	62 479	47 456	110 531	3 738
326160	Plastics bottle mfg	—	6	6	626	18 557	559	1 240	15 627	62 479	47 456	110 531	3 738
32619	Other plastics product mfg	1	192	113	13 503	312 562	10 626	20 784	202 610	898 573	908 291	1 800 594	83 303
326191	Plastics plumbing fixture mfg	1	28	9	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	163	104	11 961	276 986	9 638	18 798	184 662	788 502	843 698	1 626 158	77 440
3262	Rubber product mfg	—	83	45	13 995	492 101	11 479	25 346	368 976	1 286 576	1 351 168	2 636 952	108 302
32621	Tire mfg	—	29	8	6 209	276 513	5 150	11 330	214 984	777 992	789 132	1 561 504	62 602
326211	Tire mfg (except retreading)	—	8	6	6 043	273 032	5 017	11 036	212 444	770 533	778 911	1 543 727	62 062
326212	Tire retreading	3	21	2	166	3 481	133	294	2 540	7 459	10 221	17 777	540
32622	Rubber & plastics hoses & belting mfg	—	7	7	2 077	53 616	1 753	3 587	41 365	149 607	161 033	312 932	12 077
326220	Rubber & plastics hoses & belting mfg	—	7	7	2 077	53 616	1 753	3 587	41 365	149 607	161 033	312 932	12 077
32629	Other rubber product mfg	—	47	30	5 709	161 972	4 576	10 429	112 627	358 977	401 003	762 516	33 623
326291	Rubber product mfg for mechanical use	—	17	11	3 471	91 035	2 946	7 140	66 640	194 834	148 209	342 473	25 442
326299	All other rubber product mfg	—	30	19	2 238	70 937	1 630	3 289	45 987	164 143	252 794	420 043	8 181
327	Nonmetallic mineral product mfg	—	367	138	14 247	471 780	11 453	24 562	354 291	1 331 698	999 138	2 323 037	109 282
3271	Clay product & refractory mfg	—	46	22	3 230	90 333	2 587	5 804	67 004	277 338	117 857	394 779	29 846
32711	Pottery, ceramics, & plumbing fixture mfg	—	31	9	1 323	34 270	1 009	2 156	23 395	104 975	30 143	134 145	7 417
327112	Vitreous china, fine earthenware, & other pottery product mfg	1	27	5	438	10 542	313	556	6 396	27 391	11 419	38 620	2 066
327113	Porcelain electrical supply mfg	—	4	4	885	23 728	696	1 600	16 999	77 584	18 724	95 525	5 351
32712	Clay building material & refractories mfg	—	15	13	1 907	56 063	1 578	3 648	43 609	172 363	87 714	260 634	22 429
327121	Brick & structural clay tile mfg	—	4	4	e	D	D	D	D	D	D	D	D
327122	Ceramic wall & floor tile mfg	—	5	4	1 139	34 421	947	2 250	27 520	83 587	51 103	134 186	D
327125	Nonclay refractory mfg	—	3	3	295	10 147	239	593	7 662	50 821	20 274	71 918	D
3272	Glass & glass product mfg	—	41	17	5 586	228 995	4 805	10 730	188 104	580 397	424 820	999 091	42 344
32721	Glass & glass product mfg	—	41	17	5 586	228 995	4 805	10 730	188 104	580 397	424 820	999 091	42 344
327211	Flat glass mfg	—	3	3	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	—	8	3	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	30	11	2 608	65 987	2 279	4 703	51 674	156 419	202 795	362 033	18 748

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	TENNESSEE—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3273	Cement & concrete product mfg	2	222	80	4 393	124 272	3 284	6 491	80 985	385 322	381 319	765 744	29 345
32731	Cement mfg	—	5	2	227	10 174	171	352	7 230	46 797	28 219	75 379	4 372
327310	Cement mfg	—	5	2	227	10 174	171	352	7 230	46 797	28 219	75 379	4 372
32732	Ready-mix concrete mfg.	2	113	40	2 177	62 140	1 730	3 472	44 137	185 610	225 187	410 168	14 332
327320	Ready-mix concrete mfg	2	113	40	2 177	62 140	1 730	3 472	44 137	185 610	225 187	410 168	14 332
32733	Concrete pipe, brick, & block mfg	2	41	21	875	22 474	549	1 080	11 867	69 022	59 069	128 117	7 475
327331	Concrete block & brick mfg	1	35	18	764	19 917	481	916	10 326	59 907	49 094	109 095	6 952
327332	Concrete pipe mfg	4	6	3	111	2 557	68	164	1 541	9 115	9 975	19 022	523
32739	Other concrete product mfg	1	63	17	1 114	29 484	834	1 587	17 751	83 893	68 844	152 080	3 166
327390	Other concrete product mfg	1	63	17	1 114	29 484	834	1 587	17 751	83 893	68 844	152 080	3 166
3274	Lime & gypsum product mfg	—	6	2	209	6 013	167	344	4 385	14 914	23 435	38 308	D
32741	Lime mfg	—	3	1	166	5 013	130	260	3 536	10 790	13 323	24 112	D
327410	Lime mfg	—	3	1	166	5 013	130	260	3 536	10 790	13 323	24 112	D
3279	Other nonmetallic mineral product mfg	1	52	17	829	22 167	610	1 193	13 813	73 727	51 707	125 115	D
32791	Abrasive product mfg . .	3	3	2	136	4 709	99	218	2 768	13 641	4 266	17 762	D
327910	Abrasive product mfg . .	3	3	2	136	4 709	99	218	2 768	13 641	4 266	17 762	D
32799	All other nonmetallic mineral product mfg	1	49	15	693	17 458	511	975	11 045	60 086	47 441	107 353	D
327991	Cut stone & stone product mfg	4	21	4	194	4 145	156	295	3 122	8 356	5 750	14 013	643
327993	Mineral wool mfg	—	12	7	270	6 745	192	366	3 862	21 113	20 240	41 362	1 158
327999	All other miscellaneous nonmetallic mineral product mfg	—	9	3	138	3 748	83	145	1 686	12 562	10 131	22 507	372
331	Primary metal mfg	—	137	88	16 253	549 850	13 210	26 665	391 470	2 088 202	3 104 473	5 153 714	118 043
3311	Iron & steel mills & ferroalloy mfg	—	9	6	786	33 254	616	1 269	22 577	183 269	249 815	424 964	6 848
33111	Iron & steel mills & ferroalloy mfg	—	9	6	786	33 254	616	1 269	22 577	183 269	249 815	424 964	6 848
331111	Iron & steel mills	—	9	6	786	33 254	616	1 269	22 577	183 269	249 815	424 964	6 848
3312	Steel product mfg from purchased steel	—	23	15	2 002	60 028	1 630	3 110	43 204	212 110	372 544	582 034	21 678
33121	Iron & steel pipes & tubes mfg from purchased steel	—	9	7	1 197	34 431	958	1 619	23 480	121 173	178 735	297 111	8 547
331210	Iron & steel pipes & tubes mfg from purchased steel	—	9	7	1 197	34 431	958	1 619	23 480	121 173	178 735	297 111	8 547
33122	Rolling & drawing of purchased steel	—	14	8	805	25 597	672	1 491	19 724	90 937	193 809	284 923	13 131
331222	Steel wire drawing	—	9	7	753	23 865	639	1 421	18 854	78 226	170 712	249 062	12 657
3313	Alumina & aluminum production & processing . .	—	19	17	4 290	179 014	3 304	6 810	124 185	899 274	1 666 255	2 535 625	45 056
33131	Alumina & aluminum production & processing	—	19	17	4 290	179 014	3 304	6 810	124 185	899 274	1 666 255	2 535 625	45 056
331312	Primary aluminum production	—	1	1	f	D	D	D	D	D	D	D	D
331314	Secondary smelting & alloying of aluminum .	—	9	8	638	20 755	456	969	14 706	84 095	258 522	342 079	D
331315	Aluminum sheet, plate, & foil mfg	—	4	4	1 941	97 079	1 493	3 047	66 802	578 294	1 072 138	1 620 352	18 194
331316	Aluminum extruded product mfg	—	5	4	g	D	D	D	D	D	D	D	10 650
3314	Nonferrous metal (except aluminum) production & processing	—	22	15	1 547	53 924	1 082	2 279	32 630	273 961	359 349	639 819	9 050
33141	Nonferrous metal (except aluminum) smelting & refining	—	6	4	467	16 804	292	641	8 929	149 180	52 798	203 620	2 190
331419	Other nonferrous metal primary smelting & refining	—	6	4	467	16 804	292	641	8 929	149 180	52 798	203 620	2 190
33142	Copper rolling, drawing, extruding, & alloying . . .	1	6	4	214	6 215	151	291	3 589	17 128	48 170	66 517	1 318
331421	Copper rolling, drawing, & extruding	2	3	2	c	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	—	10	7	866	30 905	639	1 347	20 112	107 653	258 381	369 682	5 542
331491	Other nonferrous metal rolling, drawing, & extruding	—	5	5	756	27 444	558	1 163	17 752	97 580	229 253	330 924	3 562
331492	Other nonferrous metal secondary smelting, refining, & alloying . . .	2	5	2	110	3 461	81	184	2 360	10 073	29 128	38 758	1 980

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE—Con.													
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3315	Foundries	—	64	35	7 628	223 630	6 578	13 197	168 874	519 588	456 510	971 272	35 411
33151	Ferrous metal foundries	—	33	16	4 041	126 089	3 464	6 649	89 804	248 269	244 053	489 578	13 435
331511	Iron foundries	—	19	11	3 489	107 289	3 011	5 741	75 961	202 513	187 278	388 442	11 843
331512	Steel investment foundries	—	8	4	c	D	D	D	D	D	D	D	162
331513	Steel foundries (except investment)	—	6	1	e	D	D	D	D	D	D	D	1 430
33152	Nonferrous metal foundries	—	31	19	3 587	97 541	3 114	6 548	79 070	271 319	212 457	481 694	21 976
331521	Aluminum die-casting foundries	—	7	4	884	25 543	740	1 561	19 849	65 676	40 888	105 666	9 269
331522	Nonferrous (except aluminum) die-casting foundries	1	5	5	618	15 973	546	1 286	13 673	38 146	41 555	78 930	3 235
331524	Aluminum foundries (except die-casting) ..	—	14	7	1 853	48 890	1 660	3 307	40 983	151 623	120 270	271 229	8 200
331528	Other nonferrous foundries (except die-casting)	4	4	2	c	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	1 146	399	43 401	1 247 194	33 800	67 721	846 744	3 164 463	2 848 078	6 003 776	224 498
3321	Forging & stamping	—	66	35	3 632	105 894	2 885	6 358	76 920	254 963	236 808	487 419	17 407
33211	Forging & stamping	—	66	35	3 632	105 894	2 885	6 358	76 920	254 963	236 808	487 419	17 407
332111	Iron & steel forging	—	12	5	976	32 539	797	1 765	25 561	81 797	53 752	134 722	7 115
332112	Nonferrous forging	—	2	1	c	D	D	D	D	D	D	D	D
332114	Custom roll forming	—	8	4	213	6 339	140	305	3 676	19 086	22 961	40 103	1 713
332115	Crown & closure mfg	—	2	1	c	D	D	D	D	D	D	D	D
332116	Metal stamping	—	37	21	1 876	47 123	1 498	3 209	32 915	99 205	97 951	196 300	6 904
332117	Powder metallurgy part mfg	—	5	3	c	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	1	33	14	1 323	37 302	1 114	2 038	26 920	92 348	30 843	122 483	4 193
33221	Cutlery & handtool mfg ..	1	33	14	1 323	37 302	1 114	2 038	26 920	92 348	30 843	122 483	4 193
332212	Hand & edge tool mfg ..	1	24	10	1 108	30 987	937	1 669	22 615	73 536	21 798	94 371	3 671
332213	Saw blade & handsaw mfg	—	6	3	c	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	251	100	10 002	282 710	7 240	14 797	175 653	727 781	710 807	1 432 908	27 057
33231	Plate work & fabricated structural product mfg ..	1	127	43	3 447	106 016	2 526	5 288	64 384	243 005	287 233	527 832	7 869
332311	Prefabricated metal building & component mfg	—	10	3	688	26 085	439	1 039	13 054	44 583	63 473	107 494	1 752
332312	Fabricated structural metal mfg	1	102	36	2 545	73 463	1 926	3 983	47 250	187 739	216 481	402 582	5 492
332313	Plate work mfg	4	15	4	214	6 468	161	266	4 080	10 683	7 279	17 756	625
33232	Ornamental & architectural metal products mfg	—	124	57	6 555	176 694	4 714	9 509	111 269	484 776	423 574	905 076	19 188
332321	Metal window & door mfg	—	36	21	4 162	109 374	2 916	6 158	70 758	330 492	245 973	573 317	10 923
332322	Sheet metal work mfg ..	—	59	30	1 873	52 091	1 438	2 662	31 763	115 547	150 889	267 782	7 238
332323	Ornamental & architectural metal work mfg	1	29	6	520	15 229	360	689	8 748	38 737	26 712	63 977	1 027
3324	Boiler, tank, & shipping container mfg	—	44	29	3 489	105 102	2 822	5 677	76 475	212 623	289 046	503 668	15 986
33241	Power boiler & heat exchanger mfg	—	10	8	892	27 282	695	1 442	18 546	66 947	56 367	122 713	2 411
332410	Power boiler & heat exchanger mfg	—	10	8	892	27 282	695	1 442	18 546	66 947	56 367	122 713	2 411
33242	Metal tank (heavy gauge) mfg	—	15	12	1 026	32 120	853	1 722	24 636	88 074	102 581	190 760	2 967
332420	Metal tank (heavy gauge) mfg	—	15	12	1 026	32 120	853	1 722	24 636	88 074	102 581	190 760	2 967
33243	Metal can, box, & other metal container (light gauge) mfg	—	19	9	1 571	45 700	1 274	2 513	33 293	57 602	130 098	190 195	10 608
332431	Metal can mfg	—	8	4	284	8 986	247	556	7 295	24 439	84 046	110 796	7 829
332439	Other metal container mfg	—	11	5	1 287	36 714	1 027	1 957	25 998	33 163	46 052	79 399	2 779
3325	Hardware mfg	—	20	15	3 959	97 390	3 175	6 613	72 216	270 470	543 821	809 634	40 237
33251	Hardware mfg	—	20	15	3 959	97 390	3 175	6 613	72 216	270 470	543 821	809 634	40 237
332510	Hardware mfg	—	20	15	3 959	97 390	3 175	6 613	72 216	270 470	543 821	809 634	40 237
3326	Spring & wire product mfg ..	—	45	24	2 759	68 971	2 239	4 723	50 556	215 825	183 341	399 792	15 582
33261	Spring & wire product mfg	—	45	24	2 759	68 971	2 239	4 723	50 556	215 825	183 341	399 792	15 582
332612	Spring (light gauge) mfg	—	12	5	f	D	D	D	D	D	D	D	7 865
332618	Other fabricated wire product mfg	1	32	18	1 897	44 842	1 498	3 200	31 274	141 609	112 012	254 174	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TENNESSEE—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	457	87	6 798	218 428	5 314	10 310	142 115	409 182	222 396	628 932	36 189
33271	Machine shops	1	411	63	4 851	153 756	3 793	6 611	100 503	278 372	128 764	405 722	19 099
332710	Machine shops	1	411	63	4 851	153 756	3 793	6 611	100 503	278 372	128 764	405 722	19 099
33272	Turned product & screw, nut, & bolt mfg	1	46	24	1 947	64 672	1 521	3 699	41 612	130 810	93 632	223 210	17 090
332721	Precision turned product mfg	—	30	14	1 006	27 782	803	2 054	19 338	53 065	30 126	82 428	8 568
332722	Bolt, nut, screw, rivet, & washer mfg	1	16	10	941	36 890	718	1 645	22 274	77 745	63 506	140 782	8 522
3328	Coating, engraving, heat treating, & allied activities .	2	115	45	2 666	64 623	2 161	3 969	41 411	155 904	94 407	250 958	15 523
33281	Coating, engraving, heat treating, & allied activities	2	115	45	2 666	64 623	2 161	3 969	41 411	155 904	94 407	250 958	15 523
332811	Metal heat treating	1	13	6	272	7 764	218	3 969	5 801	27 327	4 965	32 168	2 640
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	42	18	1 238	26 570	1 004	1 768	16 830	68 147	54 340	122 949	7 564
332813	Electroplating, plating, polishing, anodizing, & coloring	3	60	21	1 156	30 289	939	1 710	18 780	60 430	35 102	95 841	5 319
3329	Other fabricated metal product mfg	—	115	50	8 773	266 774	6 850	13 236	184 478	825 367	536 609	1 367 982	52 324
33291	Metal valve mfg	—	15	10	2 389	75 557	1 789	3 651	51 714	284 256	165 627	444 090	17 946
332911	Industrial valve mfg	—	8	4	1 453	48 880	1 085	2 179	33 130	160 816	112 718	269 319	7 103
332912	Fluid power valve & hose fitting mfg	—	2	1	c	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	—	2	2	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	—	3	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	100	40	6 384	191 217	5 061	9 585	132 764	541 111	370 982	923 892	34 378
332991	Ball & roller bearing mfg	—	8	7	1 690	59 683	1 437	2 901	46 126	201 620	121 590	338 833	10 119
332993	Ammunition (except small arms) mfg	—	3	2	g	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	—	2	1	c	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	—	16	9	1 323	34 105	966	1 939	21 829	108 334	115 220	221 583	11 621
332997	Industrial pattern mfg	—	6	2	506	12 010	439	772	8 682	23 969	3 834	27 663	D
332998	Enameled iron & metal sanitary ware mfg	—	4	2	c	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	1	52	14	1 444	43 597	1 043	2 215	29 986	100 310	98 928	198 070	9 364
333	Machinery mfg	—	547	231	40 469	1 180 628	31 913	63 825	777 766	3 503 724	4 896 285	8 426 910	198 711
3331	Agriculture, construction, & mining machinery mfg	—	48	26	7 563	213 813	6 464	12 942	163 154	700 678	1 356 714	2 046 943	39 370
33311	Agricultural implement mfg	—	26	15	5 766	143 584	5 171	10 102	118 311	430 505	990 485	1 416 391	27 363
333111	Farm machinery & equipment mfg	—	19	8	387	10 149	284	549	6 684	18 253	30 855	48 626	1 603
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	7	7	5 379	133 435	4 887	9 553	111 627	412 252	959 630	1 367 765	25 760
33312	Construction machinery mfg	—	16	9	1 718	68 088	1 235	2 751	43 546	263 475	361 957	619 777	11 797
333120	Construction machinery mfg	—	16	9	1 718	68 088	1 235	2 751	43 546	263 475	361 957	619 777	11 797
3332	Industrial machinery mfg	1	71	32	2 430	77 338	1 594	2 990	39 507	172 339	234 817	412 501	7 086
33321	Sawmill & woodworking machinery mfg	—	9	8	861	24 576	620	1 254	14 740	66 808	137 254	209 066	834
333210	Sawmill & woodworking machinery mfg	—	9	8	861	24 576	620	1 254	14 740	66 808	137 254	209 066	834
33322	Plastics & rubber industry machinery mfg	1	12	5	270	7 375	184	288	4 217	17 109	13 866	31 014	2 240
333220	Plastics & rubber industry machinery mfg	1	12	5	270	7 375	184	288	4 217	17 109	13 866	31 014	2 240
33329	Other industrial machinery mfg	3	50	19	1 299	45 387	790	1 448	20 550	88 422	83 697	172 421	4 012
333292	Textile machinery mfg	1	10	4	345	13 346	208	447	6 589	19 655	22 334	41 986	689
333298	All other industrial machinery mfg	4	28	12	793	25 817	479	792	10 828	55 101	49 952	104 923	2 851

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3333	Commercial & service industry machinery mfg ..	-	34	18	2 386	58 955	1 660	3 025	33 699	165 397	277 431	445 689	10 757
33331	Commercial & service industry machinery mfg	-	34	18	2 386	58 955	1 660	3 025	33 699	165 397	277 431	445 689	10 757
333312	Commercial laundry, drycleaning, & pressing machine mfg	-	3	2	e	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	1	3	2	f	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg	-	20	11	1 044	27 759	709	1 246	14 236	109 309	85 582	194 691	3 238
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	55	36	14 970	388 910	12 552	25 401	285 951	1 307 470	1 745 500	3 090 718	62 393
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	55	36	14 970	388 910	12 552	25 401	285 951	1 307 470	1 745 500	3 090 718	62 393
333411	Air purification equipment mfg	-	14	7	992	23 653	845	1 482	14 509	74 592	23 745	106 392	D
333414	Heating equipment (except warm air furnaces) mfg	-	9	6	1 090	22 901	849	1 677	14 863	88 845	89 947	174 932	5 071
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	29	22	12 852	341 468	10 832	22 192	256 028	1 142 932	1 630 852	2 807 318	56 442
3335	Metalworking machinery mfg	1	194	59	4 510	175 207	3 249	6 402	102 183	316 973	192 361	508 138	32 118
33351	Metalworking machinery mfg	1	194	59	4 510	175 207	3 249	6 402	102 183	316 973	192 361	508 138	32 118
333511	Industrial mold mfg ...	2	27	10	435	14 748	345	630	10 337	26 261	12 302	36 809	2 392
333512	Machine tool (metal cutting types) mfg ...	-	6	4	c	D	D	D	D	D	D	D	534
333513	Machine tool (metal forming types) mfg ...	1	3	2	107	3 653	82	108	2 025	7 377	5 309	12 580	D
333514	Special die & tool, die set, jig, & fixture mfg ..	1	126	36	1 950	65 274	1 529	2 882	43 574	120 407	46 381	165 371	10 198
333515	Cutting tool & machine tool accessory mfg ..	-	23	5	1 120	42 835	834	1 726	27 394	82 292	46 560	127 665	14 618
333518	Other metalworking machinery mfg	-	7	2	f	D	D	D	D	D	D	D	4 003
3336	Engine, turbine, & power transmission equipment mfg	-	15	8	1 975	53 563	1 664	3 195	35 964	219 191	287 969	512 932	12 910
33361	Engine, turbine, & power transmission equipment mfg	-	15	8	1 975	53 563	1 664	3 195	35 964	219 191	287 969	512 932	12 910
333613	Mechanical power transmission equipment mfg	-	8	4	f	D	D	D	D	D	D	D	6 994
333618	Other engine equipment mfg	-	6	4	1 377	33 880	1 180	2 453	26 084	162 110	255 554	419 928	D
3339	Other general-purpose machinery mfg	-	130	52	6 635	212 842	4 730	9 870	117 308	621 676	801 493	1 409 989	34 077
33391	Pump & compressor mfg	-	21	8	1 382	38 099	964	1 909	19 375	142 569	266 860	406 995	8 670
333911	Pump & pumping equipment mfg	1	11	4	303	10 532	189	410	5 664	24 773	27 964	53 708	2 629
333912	Air & gas compressor mfg	-	7	2	f	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg	-	3	2	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	38	20	2 140	78 329	1 590	3 552	45 998	142 240	303 113	444 702	6 409
333921	Elevator & moving stairway mfg	-	5	1	e	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	-	25	14	1 000	40 376	567	1 108	14 789	95 391	159 751	255 946	2 471
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	-	6	4	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	71	24	3 113	96 414	2 176	4 409	51 935	336 867	231 520	558 292	18 998
333991	Power-driven handtool mfg	-	4	3	g	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg ..	-	4	3	c	D	D	D	D	D	D	D	182
333995	Fluid power cylinder & actuator mfg	-	7	2	185	5 049	157	341	3 875	12 540	9 450	21 970	952
333996	Fluid power pump & motor mfg	-	4	2	e	D	D	D	D	D	D	D	2 009
333999	All other miscellaneous general-purpose machinery mfg	2	43	10	813	23 704	595	1 149	14 829	54 618	39 822	93 434	2 651

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	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	—	190	79	12 506	386 627	8 618	16 879	201 173	799 646	1 876 290	2 734 966	93 228
3341	Computer & peripheral equipment mfg.....	1	19	5	435	14 746	228	487	6 394	26 724	38 330	70 895	1 249
33411	Computer & peripheral equipment mfg.....	1	19	5	435	14 746	228	487	6 394	26 724	38 330	70 895	1 249
334119	Other computer peripheral equipment mfg.....	1	10	4	361	12 816	194	419	5 294	20 591	31 158	58 022	903
3342	Communications equipment mfg.....	5	28	12	1 431	39 656	915	1 373	15 914	76 293	77 677	155 591	8 462
33421	Telephone apparatus mfg.....	7	8	3	c	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	7	8	3	c	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	4	17	7	1 167	31 771	780	1 178	13 176	60 772	61 630	124 325	7 268
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	4	17	7	1 167	31 771	780	1 178	13 176	60 772	61 630	124 325	7 268
3343	Audio & video equipment mfg.....	—	17	9	4 019	131 078	3 128	5 770	77 250	219 499	1 336 815	1 611 908	38 580
33431	Audio & video equipment mfg.....	—	17	9	4 019	131 078	3 128	5 770	77 250	219 499	1 336 815	1 611 908	38 580
334310	Audio & video equipment mfg.....	—	17	9	4 019	131 078	3 128	5 770	77 250	219 499	1 336 815	1 611 908	38 580
3344	Semiconductor & other electronic component mfg.....	1	40	19	2 346	71 322	1 586	3 270	39 307	161 954	199 086	360 032	16 013
33441	Semiconductor & other electronic component mfg.....	1	40	19	2 346	71 322	1 586	3 270	39 307	161 954	199 086	360 032	16 013
334412	Bare printed circuit board mfg.....	—	6	2	253	6 383	213	411	4 300	11 025	19 603	29 962	788
334413	Semiconductor & related device mfg...	1	3	1	c	D	D	D	D	D	D	D	665
334416	Electronic coil, transformer, & other inductor mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
334417	Electronic connector mfg.....	—	2	1	c	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	—	11	7	1 015	34 000	539	1 111	14 671	91 984	98 397	189 523	10 417
334419	Other electronic component mfg.....	7	14	6	358	7 311	273	489	3 969	22 853	20 352	43 154	692
3345	Navigational, measuring, medical, & control instruments mfg.....	—	65	27	3 694	113 117	2 331	5 083	52 685	285 583	199 952	482 796	16 277
33451	Navigational, measuring, medical, & control instruments mfg.....	—	65	27	3 694	113 117	2 331	5 083	52 685	285 583	199 952	482 796	16 277
334510	Electromedical & electrotherapeutic apparatus mfg.....	1	7	2	113	3 648	53	114	1 404	6 153	3 744	10 257	215
334512	Automatic environmental control mfg.....	—	7	5	1 163	29 530	1 015	2 416	23 201	78 699	57 247	133 934	D
334513	Industrial process control instrument mfg.....	—	9	5	579	13 698	455	890	6 663	34 351	27 235	61 033	1 086
334514	Totalizing fluid meter & counting device mfg..	—	1	1	e	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg.....	—	11	5	428	22 589	149	345	5 699	48 390	10 457	59 882	2 549
334517	Irradiation apparatus mfg.....	—	6	2	c	D	D	D	D	D	D	D	116
334518	Watch, clock, & part mfg.....	—	3	1	c	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg.....	—	13	6	782	24 618	363	702	9 102	53 572	40 714	94 264	4 308
3346	Mfg & reproducing magnetic & optical media..	1	21	7	581	16 708	430	896	9 623	29 593	24 430	53 744	12 647
33461	Mfg & reproducing magnetic & optical media.....	1	21	7	581	16 708	430	896	9 623	29 593	24 430	53 744	12 647
334612	Prerecorded CD (except software), tape, & record reproducing.....	1	19	7	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	148	92	25 267	709 880	20 716	41 959	511 459	2 046 163	2 493 095	4 528 483	155 360
3351	Electric lighting equipment mfg	-	26	16	2 147	65 809	1 702	3 550	47 276	199 426	155 767	354 517	7 974
33511	Electric lamp bulb & part mfg	-	2	2	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg	-	2	2	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	1	24	14	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	5	8	3	c	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	9	6	920	24 323	720	1 430	17 422	99 788	98 295	196 832	3 581
335129	Other lighting equipment mfg	1	7	5	342	11 968	222	365	5 128	26 644	24 212	51 223	1 394
3352	Household appliance mfg...	-	22	17	10 170	265 679	8 248	16 537	188 618	944 222	1 125 805	2 062 401	53 835
33521	Small electrical appliance mfg	-	6	4	1 294	26 990	687	1 146	12 582	169 881	143 459	299 519	D
335211	Electric housewares & household fan mfg...	-	6	4	1 294	26 990	687	1 146	12 582	169 881	143 459	299 519	D
33522	Major appliance mfg	-	16	13	8 876	238 689	7 561	15 391	176 036	774 341	982 346	1 762 882	D
335221	Household cooking appliance mfg	-	10	8	h	D	D	D	D	D	D	D	33 649
335222	Household refrigerator & home freezer mfg...	-	1	1	c	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	-	5	4	4 192	115 527	3 579	7 151	84 502	367 415	532 417	905 670	15 923
3353	Electrical equipment mfg ..	-	59	34	8 796	239 516	7 464	15 451	185 492	579 448	730 456	1 311 419	30 450
33531	Electrical equipment mfg	-	59	34	8 796	239 516	7 464	15 451	185 492	579 448	730 456	1 311 419	30 450
335311	Power, distribution, & specialty transformer mfg	-	9	6	773	21 369	525	1 089	11 671	61 939	65 959	128 815	2 329
335312	Motor & generator mfg	-	23	17	6 274	163 008	5 537	11 638	135 318	317 701	512 893	827 302	21 276
335313	Switchgear & switchboard apparatus mfg	-	14	7	1 465	45 675	1 243	2 450	34 989	175 569	137 678	317 247	6 358
335314	Relay & industrial control mfg	2	13	4	284	9 464	159	274	3 514	24 239	13 926	38 055	487
3359	Other electrical equipment & component mfg	-	41	25	4 154	138 876	3 302	6 421	90 073	323 067	481 067	800 146	63 101
33591	Battery mfg	-	7	3	1 066	40 637	840	1 733	27 065	67 421	141 482	204 152	D
335911	Storage battery mfg...	-	5	2	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg...	-	2	1	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	5	5	473	15 029	353	761	8 162	44 701	128 954	175 031	D
335929	Other communication & energy wire mfg ...	-	5	5	473	15 029	353	761	8 162	44 701	128 954	175 031	D
33593	Wiring device mfg	-	10	8	1 507	42 107	1 263	2 175	30 194	102 558	97 868	199 212	16 676
335931	Current-carrying wiring device mfg	-	5	4	640	14 027	550	819	10 164	30 601	23 733	54 553	D
335932	Noncurrent-carrying wiring device mfg....	-	5	4	867	28 080	713	1 356	20 030	71 957	74 135	144 659	D
33599	All other electrical equipment & component mfg	-	19	9	1 108	41 103	846	1 752	24 652	108 387	112 763	221 751	10 791
335991	Carbon & graphite product mfg	-	5	3	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	1	14	6	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	310	177	55 661	2 047 036	44 266	87 638	1 468 849	6 439 807	12 279 813	18 661 304	908 661
3361	Motor vehicle mfg	-	5	4	15 902	835 151	13 069	25 587	639 755	3 026 371	7 480 789	10 479 954	D
33611	Automobile & light duty motor vehicle mfg	-	4	3	j	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	4	3	j	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	-	51	18	2 149	53 536	1 656	3 151	33 164	92 762	270 068	358 819	D
33621	Motor vehicle body & trailer mfg	-	51	18	2 149	53 536	1 656	3 151	33 164	92 762	270 068	358 819	D
336211	Motor vehicle body mfg	-	14	4	619	16 278	470	925	9 713	16 828	158 231	170 510	3 540
336212	Truck trailer mfg	-	12	4	854	22 825	667	1 273	14 724	50 164	67 407	118 082	D
336213	Motor home mfg	3	4	2	189	4 568	156	333	2 707	6 057	14 925	20 950	D
336214	Travel trailer & camper mfg	1	21	8	487	9 865	363	620	6 020	19 713	29 505	49 277	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg . . .	-	178	114	29 626	898 457	23 485	47 404	627 614	2 761 687	3 860 736	6 618 719	323 336
33631	Motor vehicle gasoline engine & engine parts mfg	1	23	13	4 171	129 992	3 192	6 179	87 674	248 119	219 816	470 876	48 997
336311	Carburetor, piston, piston ring, & valve mfg	-	4	3	1 862	58 757	1 449	2 751	44 269	130 041	63 722	195 791	D
336312	Gasoline engine & engine parts mfg	1	19	10	2 309	71 235	1 743	3 428	43 405	118 078	156 094	275 085	D
33632	Motor vehicle electrical & electronic equipment mfg	2	24	13	1 131	24 935	878	1 848	17 265	63 261	67 635	130 216	6 426
336321	Vehicular lighting equipment mfg	3	3	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	21	11	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	11	10	4 242	156 372	3 325	7 186	107 817	371 523	607 432	982 424	63 413
336330	Motor vehicle steering & suspension component (except spring) mfg	-	11	10	4 242	156 372	3 325	7 186	107 817	371 523	607 432	982 424	63 413
33634	Motor vehicle brake system mfg	-	14	11	2 924	90 095	2 238	4 913	59 190	273 724	343 589	613 113	56 346
336340	Motor vehicle brake system mfg	-	14	11	2 924	90 095	2 238	4 913	59 190	273 724	343 589	613 113	56 346
33635	Motor vehicle transmission & power train parts mfg	-	16	8	1 371	41 699	1 027	2 094	29 662	160 546	278 412	436 395	12 652
336350	Motor vehicle transmission & power train parts mfg	-	16	8	1 371	41 699	1 027	2 094	29 662	160 546	278 412	436 395	12 652
33636	Motor vehicle seating & interior trim mfg	2	11	7	2 464	68 615	2 027	4 488	48 322	163 823	409 561	576 885	17 226
336360	Motor vehicle seating & interior trim mfg	2	11	7	2 464	68 615	2 027	4 488	48 322	163 823	409 561	576 885	17 226
33637	Motor vehicle metal stamping	-	19	13	2 061	62 737	1 715	3 248	48 292	136 277	193 484	328 970	8 138
336370	Motor vehicle metal stamping	-	19	13	2 061	62 737	1 715	3 248	48 292	136 277	193 484	328 970	8 138
33639	Other motor vehicle parts mfg	-	60	39	11 262	324 012	9 083	17 448	229 392	1 344 414	1 740 807	3 079 840	110 138
336399	All other motor vehicle parts mfg	-	60	39	11 262	324 012	9 083	17 448	229 392	1 344 414	1 740 807	3 079 840	110 138
3364	Aerospace product & parts mfg	-	19	10	3 054	136 199	2 098	4 160	84 697	290 510	159 183	424 323	16 883
33641	Aerospace product & parts mfg	-	19	10	3 054	136 199	2 098	4 160	84 697	290 510	159 183	424 323	16 883
336413	Other aircraft part & auxiliary equipment mfg	-	15	9	3 012	134 835	2 065	4 096	84 022	285 535	156 486	416 655	16 673
3365	Railroad rolling stock mfg	-	2	1	c	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	2	1	c	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	2	1	c	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	38	23	4 341	109 341	3 506	6 486	74 343	220 626	471 280	693 649	18 332
33661	Ship & boat building	-	38	23	4 341	109 341	3 506	6 486	74 343	220 626	471 280	693 649	18 332
336611	Ship building & repairing	-	6	2	e	D	D	D	D	D	D	D	D
336612	Boat building	-	32	21	h	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	3	17	7	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	3	17	7	e	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	8	2	c	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	8	9	5	c	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TENNESSEE—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	1	561	166	26 529	566 026	22 196	40 948	408 671	1 184 583	1 177 912	2 365 540	56 314
3371	Household & institutional furniture & kitchen cabinet mfg	1	441	114	20 716	421 516	17 688	33 038	319 514	841 188	809 485	1 643 356	35 525
33711	Wood kitchen cabinet & counter top mfg	3	230	30	2 151	40 413	1 792	2 996	29 710	78 557	77 281	155 428	3 745
337110	Wood kitchen cabinet & counter top mfg ...	3	230	30	2 151	40 413	1 792	2 996	29 710	78 557	77 281	155 428	3 745
33712	Household & institutional furniture mfg	—	211	84	18 565	381 103	15 896	30 042	289 804	762 631	732 204	1 487 928	31 780
337121	Upholstered household furniture mfg	—	61	27	8 993	193 330	8 025	15 092	150 123	403 980	373 715	770 023	13 422
337122	Nonupholstered wood household furniture mfg	1	98	33	5 159	100 078	4 484	8 471	79 164	182 879	190 842	374 534	7 236
337124	Metal household furniture mfg	—	9	6	1 693	36 833	1 354	2 575	26 558	62 250	36 168	97 928	5 278
337127	Institutional furniture mfg	—	36	16	2 273	44 539	1 720	3 363	29 415	100 693	116 671	218 159	5 092
337129	Wood television, radio, & sewing machine cabinet mfg	—	4	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	1	96	38	4 765	118 900	3 682	6 374	72 524	271 282	284 861	564 222	18 273
33721	Office furniture (including fixtures) mfg	1	96	38	4 765	118 900	3 682	6 374	72 524	271 282	284 861	564 222	18 273
337211	Wood office furniture mfg	2	15	4	271	5 924	230	360	3 485	10 720	8 818	19 091	358
337212	Custom architectural woodwork & millwork mfg	—	24	13	629	16 357	451	870	10 206	30 703	30 304	61 239	925
337214	Office furniture (except wood) mfg	1	14	9	1 892	44 447	1 331	2 254	24 356	95 494	141 025	242 100	6 739
337215	Showcase, partition, shelving, & locker mfg	—	43	12	1 973	52 172	1 670	2 890	34 477	134 365	104 714	241 792	10 251
3379	Other furniture related product mfg	1	24	14	1 048	25 610	826	1 536	16 633	72 113	83 566	157 962	2 516
33791	Mattress mfg	1	19	10	722	18 449	556	989	11 314	53 111	62 095	114 853	2 227
337910	Mattress mfg	1	19	10	722	18 449	556	989	11 314	53 111	62 095	114 853	2 227
33792	Blind & shade mfg	—	5	4	326	7 161	270	547	5 319	19 002	21 471	43 109	289
337920	Blind & shade mfg	—	5	4	326	7 161	270	547	5 319	19 002	21 471	43 109	289
339	Miscellaneous mfg	—	526	118	19 930	547 213	14 274	26 941	312 502	1 875 371	1 197 855	3 112 531	98 222
3391	Medical equipment & supplies mfg	—	219	35	5 899	199 107	3 800	6 125	89 002	769 598	391 268	1 216 198	46 900
33911	Medical equipment & supplies mfg	—	219	35	5 899	199 107	3 800	6 125	89 002	769 598	391 268	1 216 198	46 900
339112	Surgical & medical instrument mfg	—	23	8	784	34 809	515	870	16 199	162 084	96 668	259 992	9 594
339113	Surgical appliance & supplies mfg	—	31	16	3 965	139 556	2 413	3 803	56 832	552 103	269 848	875 810	34 403
339114	Dental equipment & supplies mfg	3	13	1	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	8	9	3	229	4 625	140	199	2 478	10 959	6 882	17 675	1 509
339116	Dental laboratories ...	7	140	6	617	13 138	464	725	8 486	31 098	12 464	43 919	1 078
3399	Other miscellaneous mfg ..	1	307	83	14 031	348 106	10 474	20 816	223 500	1 105 773	806 587	1 896 333	51 322
33991	Jewelry & silverware mfg	5	12	1	107	2 429	64	118	1 224	10 017	6 352	15 674	434
33992	Sporting & athletic goods mfg	3	40	11	1 688	40 248	1 214	2 416	25 141	122 922	118 820	236 647	7 544
339920	Sporting & athletic goods mfg	3	40	11	1 688	40 248	1 214	2 416	25 141	122 922	118 820	236 647	7 544
33993	Doll, toy, & game mfg ...	1	11	2	241	3 495	221	379	2 804	7 713	5 784	13 355	844
339932	Game, toy, & children's vehicle mfg	1	7	2	c	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	—	32	15	3 756	92 437	2 722	5 189	60 017	431 841	296 318	709 219	9 711
339941	Pen & mechanical pencil mfg	—	4	3	1 330	31 529	835	1 771	17 818	207 584	121 153	312 027	4 470
339942	Lead pencil & art good mfg	—	7	6	1 175	28 880	1 014	1 734	20 140	118 065	48 634	163 629	2 979
339943	Marking device mfg ...	1	14	3	556	12 619	343	720	8 377	33 109	15 511	48 449	567
339944	Carbon paper & inked ribbon mfg	—	7	3	695	19 409	530	964	13 682	73 083	111 020	185 114	1 695
33995	Sign mfg	2	120	20	2 064	55 586	1 288	2 663	26 669	98 236	76 338	185 525	8 405
339950	Sign mfg	2	120	20	2 064	55 586	1 288	2 663	26 669	98 236	76 338	185 525	8 405

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	TENNESSEE—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33999	All other miscellaneous mfg	—	92	34	6 175	153 911	4 965	10 051	107 645	435 044	302 975	735 913	24 384
339991	Gasket, packing, & sealing device mfg	—	13	12	1 551	42 885	1 176	2 495	26 645	96 704	91 667	188 820	6 659
339992	Musical instrument mfg	—	19	3	713	19 581	609	1 415	14 574	46 322	24 114	68 186	523
339993	Fastener, button, needle, & pin mfg	—	3	3	e	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg	—	10	6	1 278	27 809	1 089	2 011	20 973	87 290	64 705	151 981	5 753
339995	Burial casket mfg	—	4	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	2	43	8	1 694	36 259	1 310	2 404	23 278	68 915	64 768	133 440	5 956

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

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

Table 2. Industry Statistics for Metropolitan Areas: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHATTANOOGA, TN—GA MSA												
	Manufacturing	1	707	277	44 038	1 265 866	33 390	65 958	801 035	3 395 618	4 098 991	7 470 751	332 375
	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
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

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHATTANOOGA, TN-GA MSA—Con.												
	Manufacturing—Con.												
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
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHATTANOOGA, TN-GA MSA—Con.												
	Manufacturing—Con.												
325	Chemical mfg—Con.												
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
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	—	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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHATTANOOGA, TN-GA MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
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	13 362	32 015	D
339950	Sign mfg	—	8	3	329	8 331	212	442	4 804	18 940	13 362	32 015	D
31-33	CLARKSVILLE-HOPKINSVILLE, TN-KY MSA												
	Manufacturing	—	139	56	10 988	298 185	9 106	18 413	213 779	1 047 894	1 006 268	2 052 436	86 165
	Clarksville-Hopkinsville, TN-KY MSA (KY Part)	1	56	24	4 469	115 442	3 632	7 513	79 897	332 176	452 316	780 814	23 190
	Clarksville-Hopkinsville, TN-KY MSA (TN Part)	—	83	32	6 519	182 743	5 474	10 900	133 882	715 718	553 952	1 271 622	62 975
315	Apparel mfg	—	6	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	6	3	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	2	2	g	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	—	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg	1	9	3	323	8 692	267	535	5 244	4 760	24 667	29 532	D
3211	Sawmills & wood preservation	1	5	2	279	8 135	231	491	4 840	3 700	23 533	27 326	D
32111	Sawmills & wood preservation	1	5	2	279	8 135	231	491	4 840	3 700	23 533	27 326	D
321113	Sawmills	—	4	2	e	D	D	D	D	D	D	D	D

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31-33	CLARKSVILLE–HOPKINSVILLE, TN–KY MSA—Con.													
	Manufacturing—Con.													
322	Paper mfg	-	3	3	e	D	D	D	D	D	D	D	D	
3222	Converted paper product mfg	-	3	3	e	D	D	D	D	D	D	D	D	
32221	Paperboard container mfg	-	3	3	e	D	D	D	D	D	D	D	D	
322215	Nonfolding sanitary food container mfg ...	-	1	1	e	D	D	D	D	D	D	D	D	
323	Printing & related support activities	-	19	3		1 692	42 942	1 508	2 976	34 094	100 792	48 155	147 515	6 297
3231	Printing & related support activities	-	19	3		1 692	42 942	1 508	2 976	34 094	100 792	48 155	147 515	6 297
32311	Printing	-	19	3		1 692	42 942	1 508	2 976	34 094	100 792	48 155	147 515	6 297
323110	Commercial lithographic printing ..	-	4	1	f	D	D	D	D	D	D	D	D	D
323117	Book printing	-	2	1	f	D	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	2	e	D	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	11	5		620	17 179	533	1 211	13 608	38 191	33 992	70 860	1 205
3271	Clay product & refractory mfg	-	1	1	e	D	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	1	1	e	D	D	D	D	D	D	D	D	D
327122	Ceramic wall & floor tile mfg	-	1	1	e	D	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	6	5		753	25 857	566	1 237	17 999	192 383	157 278	346 846	D
3314	Nonferrous metal (except aluminum) production & processing	-	4	3	f	D	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	2	2	e	D	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding	-	1	1	e	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	22	7		503	13 232	396	786	8 687	35 091	28 382	63 123	943
3326	Spring & wire product mfg .	-	3	2	e	D	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	3	2	e	D	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	4	h	D	D	D	D	D	D	D	D	8 334
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	g	D	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	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	2	2	g	D	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	4	2	e	D	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	2	e	D	D	D	D	D	D	D	D	D
333996	Fluid power pump & motor mfg	-	1	1	e	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	5	3	2	f	D	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg	9	1	1	e	D	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	9	1	1	e	D	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	9	1	1	e	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	8	6		1 218	32 937	917	2 127	20 821	102 022	105 769	208 373	D
3361	Motor vehicle mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	6	4	f	D	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JACKSON, TN MSA													
31-33	Manufacturing	-	162	75	13 282	401 121	10 675	22 028	273 053	1 541 586	2 075 988	3 549 446	188 754
311	Food mfg	-	11	7	2 014	76 773	1 804	3 939	59 609	429 641	545 720	936 187	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	e	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	4	2	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	1	1	e	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	-	1	1	e	D	D	D	D	D	D	D	D
3119	Other food mfg	-	2	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	4	e	D	D	D	D	D	D	D	445
3152	Cut & sew apparel mfg	2	3	3	253	3 045	241	415	2 665	2 829	854	3 881	D
321	Wood product mfg	1	18	4	681	14 353	619	1 154	12 042	14 542	38 264	53 612	3 116
3219	Other wood product mfg	-	11	2	581	12 360	534	1 009	10 785	9 679	33 787	44 221	D
32191	Millwork	-	2	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	7	6	824	25 636	706	1 491	19 219	87 526	130 481	216 869	17 004
3222	Converted paper product mfg	-	7	6	824	25 636	706	1 491	19 219	87 526	130 481	216 869	17 004
32221	Paperboard container mfg	-	5	4	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	2	2	e	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	-	1	1	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	7	4	251	8 795	177	369	5 403	30 232	65 763	94 223	4 970
326	Plastics & rubber products mfg	-	10	6	510	13 124	441	929	10 116	41 640	42 897	83 855	7 058
3261	Plastics product mfg	-	9	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	8	6	710	23 029	570	1 371	17 840	51 102	45 735	98 230	6 171
3271	Clay product & refractory mfg	-	1	1	e	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	1	1	e	D	D	D	D	D	D	D	D
327122	Ceramic wall & floor tile mfg	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	5	943	36 975	729	1 550	25 552	141 422	287 856	424 701	3 492
3311	Iron & steel mills & ferroalloy mfg	-	1	1	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing . .	-	2	2	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	2	2	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	35	12	1 474	44 224	1 188	2 500	31 032	126 075	111 888	235 653	15 084
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	13	5	e	D	D	D	D	D	D	D	D
33271	Machine shops	-	12	4	371	13 598	289	584	9 635	23 338	11 769	35 000	1 520
332710	Machine shops	-	12	4	371	13 598	289	584	9 635	23 338	11 769	35 000	1 520
3329	Other fabricated metal product mfg	-	4	3	633	19 111	536	1 208	14 214	76 557	59 233	135 039	D
33291	Metal valve mfg	-	2	2	e	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	-	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	-	1	1	e	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JACKSON, TN MSA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	-	9	6	2 945	80 829	2 212	4 044	43 109	331 379	457 081	770 578	20 579
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
3339	Other general-purpose machinery mfg.	-	4	3	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg.	-	2	2	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg.	-	2	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.	-	2	1	g	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg.	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.	-	3	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg.	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg.	-	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg.	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.	-	6	4	1 058	31 986	734	1 744	18 538	106 460	137 232	239 088	9 838
3363	Motor vehicle parts mfg.	-	5	3	f	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg.	-	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg.	-	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.	-	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg.	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.	9	6	3	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg.	9	3	3	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg.	9	3	3	e	D	D	D	D	D	D	D	D
JOHNSON CITY—KINGSPORT—BRISTOL, TN—VA MSA													
31-33	Manufacturing	-	571	225	48 454	1 628 128	36 024	72 241	998 349	4 405 437	4 191 955	8 652 607	462 319
	Johnson City—Kingsport—Bristol, TN—VA MSA (TN Part)	-	453	178	38 984	1 380 616	28 551	57 017	825 960	3 736 418	3 262 698	7 062 866	419 848
	Johnson City—Kingsport—Bristol, TN—VA MSA (VA Part)	-	118	47	9 470	247 512	7 473	15 224	172 389	669 019	929 257	1 589 741	42 471
311	Food mfg.	-	22	10	1 352	31 940	585	1 063	12 013	95 197	121 341	216 887	D
3118	Bakeries & tortilla mfg.	-	6	4	e	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.	-	6	4	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	6	4	e	D	D	D	D	D	D	D	D
3119	Other food mfg.	-	3	2	f	D	D	D	D	D	D	D	D
31191	Snack food mfg.	-	2	2	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg. .	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	2	12	9	2 158	52 277	1 850	3 568	40 258	103 849	164 777	272 880	9 477
3132	Fabric mills	-	4	4	1 211	29 356	1 088	2 212	23 769	60 921	102 725	164 377	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	6	7	4	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	4	4	2	e	D	D	D	D	D	D	D	D
31332	Fabric coating mills	6	3	2	e	D	D	D	D	D	D	D	D
313320	Fabric coating mills ...	6	3	2	e	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	13	5	264	5 234	207	335	2 550	17 542	5 981	23 291	255
3149	Other textile product mills..	-	8	5	e	D	D	D	D	D	D	D	247

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	JOHNSON CITY—KINGSPORT—BRISTOL, TN—VA MSA—Con. Manufacturing—Con.												
315	Apparel mfg	3	17	14	1 892	30 892	1 725	3 329	27 617	96 404	46 669	144 309	2 405
3152	Cut & sew apparel mfg	3	13	11	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	5	7	6	f	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	4	6	5	526	8 948	490	1 183	8 400	11 180	2 045	13 221	D
31522	Men's & boys' cut & sew apparel mfg	—	3	3	f	D	D	D	D	D	D	D	1 618
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	—	1	1	e	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	—	2	2	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	8	3	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	50	15	1 306	26 883	1 149	2 258	19 562	57 000	120 953	171 681	7 605
3211	Sawmills & wood preservation	2	19	6	e	D	D	D	D	D	D	D	3 623
32111	Sawmills & wood preservation	2	19	6	e	D	D	D	D	D	D	D	3 623
3219	Other wood product mfg ...	—	26	8	806	17 525	704	1 361	12 536	32 411	74 274	105 605	D
32191	Millwork	—	8	4	617	14 185	545	1 100	10 154	25 282	65 031	89 265	D
321918	Other millwork (including flooring) ...	—	3	3	433	10 846	385	812	7 701	19 820	62 426	80 733	D
322	Paper mfg	—	12	11	1 156	42 216	901	1 909	31 227	93 210	224 462	317 260	50 203
3221	Pulp, paper, & paperboard mills	—	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	—	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	11	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	7	6	385	10 104	281	591	6 129	20 603	35 851	56 082	D
322211	Corrugated & solid fiber box mfg	—	4	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	71	20	4 225	116 828	3 665	7 553	93 026	257 733	196 929	451 666	31 490
3231	Printing & related support activities	—	71	20	4 225	116 828	3 665	7 553	93 026	257 733	196 929	451 666	31 490
32311	Printing	—	66	20	4 197	116 436	3 641	7 530	92 730	256 661	196 779	450 453	31 445
323110	Commercial lithographic printing ..	2	34	6	419	9 457	314	537	5 803	17 975	14 137	32 258	1 096
323111	Commercial gravure printing	—	3	2	e	D	D	D	D	D	D	D	D
323117	Book printing	—	6	6	2 847	76 919	2 537	5 113	65 000	156 338	114 999	268 105	D
325	Chemical mfg	—	23	9	12 634	672 537	7 070	14 546	312 060	2 022 755	1 386 002	3 458 936	D
3251	Basic chemical mfg	—	4	1	j	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	1	1	j	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	1	1	j	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	3	2	f	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	—	3	2	f	D	D	D	D	D	D	D	D
325221	Cellulosic organic fiber mfg	—	1	1	e	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	—	2	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	—	5	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	5	4	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	4	3	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	—	7	1	544	27 985	320	814	14 372	46 448	14 588	61 048	60
32592	Explosives mfg	—	2	1	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	—	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	JOHNSON CITY—KINGSPORT—BRISTOL, TN—VA MSA—Con.												
	Manufacturing—Con.												
326	Plastics & rubber products mfg	—	26	16	2 023	53 992	1 605	3 188	37 762	157 179	177 442	335 366	7 178
3261	Plastics product mfg	1	17	10	971	23 731	806	1 442	16 047	61 584	69 089	131 273	D
32619	Other plastics product mfg	1	13	8	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	13	8	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	9	6	1 052	30 261	799	1 746	21 715	95 595	108 353	204 093	D
32629	Other rubber product mfg	—	7	6	g	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	—	2	2	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	—	5	4	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	40	16	2 278	70 644	1 871	3 957	53 049	242 474	138 117	376 116	14 644
3271	Clay product & refractory mfg	—	6	3	379	10 489	303	641	7 524	36 711	14 935	51 427	D
32712	Clay building material & refractories mfg	—	4	3	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	—	6	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	6	3	g	D	D	D	D	D	D	D	D
327211	Flat glass mfg	—	2	2	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	2	23	7	372	9 945	279	512	5 568	27 428	22 663	50 203	2 185
331	Primary metal mfg	—	20	12	g	D	D	D	D	D	D	D	11 586
3312	Steel product mfg from purchased steel	1	3	3	819	20 131	667	1 042	13 162	70 698	72 654	143 740	3 248
33121	Iron & steel pipes & tubes mfg from purchased steel	1	3	3	819	20 131	667	1 042	13 162	70 698	72 654	143 740	3 248
331210	Iron & steel pipes & tubes mfg from purchased steel	1	3	3	819	20 131	667	1 042	13 162	70 698	72 654	143 740	3 248
3313	Alumina & aluminum production & processing	—	3	2	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	3	2	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	2	1	e	D	D	D	D	D	D	D	D
3315	Foundries	—	11	5	f	D	D	D	D	D	D	D	1 246
33152	Nonferrous metal foundries	—	4	2	e	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	99	33	3 818	113 584	3 060	5 854	82 269	292 257	275 723	573 839	16 192
3321	Forging & stamping	1	9	6	707	18 142	525	1 143	12 733	36 287	40 830	77 481	2 229
33211	Forging & stamping	1	9	6	707	18 142	525	1 143	12 733	36 287	40 830	77 481	2 229
332111	Iron & steel forging	2	3	2	e	D	D	D	D	D	D	D	D
332116	Metal stamping	—	4	3	331	8 082	258	592	5 556	14 287	22 515	36 893	D
3322	Cutlery & handtool mfg	—	5	3	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	—	5	3	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg	—	5	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	15	7	661	16 527	510	1 017	11 437	36 478	48 731	84 635	2 164
33231	Plate work & fabricated structural product mfg	—	10	4	317	8 342	237	433	5 574	21 960	25 470	47 408	1 208
332312	Fabricated structural metal mfg	—	9	4	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	5	3	344	8 185	273	584	5 863	14 518	23 261	37 227	956
332321	Metal window & door mfg	—	3	2	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	—	3	2	e	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	1	1	e	D	D	D	D	D	D	D	D
332431	Metal can mfg	—	1	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	51	7	e	D	D	D	D	D	D	D	D
33271	Machine shops	1	48	6	461	12 229	358	605	8 216	21 100	13 409	34 765	1 513
332710	Machine shops	1	48	6	461	12 229	358	605	8 216	21 100	13 409	34 765	1 513

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	JOHNSON CITY—KINGSPORT—BRISTOL, TN—VA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	-	6	3	848	32 618	702	1 455	24 288	112 411	59 507	183 441	4 963
33299	All other fabricated metal product mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg.....	-	3	3	827	32 111	686	1 430	23 945	111 298	58 640	181 456	4 892
333	Machinery mfg.....	-	44	15	5 102	135 579	4 409	9 016	102 546	351 579	493 406	844 463	19 626
3331	Agriculture, construction, & mining machinery mfg....	3	7	5	537	17 948	411	796	10 111	32 277	58 976	95 443	D
33313	Mining & oil & gas field machinery mfg.....	4	5	3	e	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg.....	4	5	3	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	-	5	4	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	-	5	4	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial industrial refrig equip mfg.....	-	3	3	h	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg.....	-	13	1	542	17 845	469	902	14 376	31 999	15 629	47 437	2 859
33351	Metalworking machinery mfg.....	-	13	1	542	17 845	469	902	14 376	31 999	15 629	47 437	2 859
333515	Cutting tool & machine tool accessory mfg..	-	3	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	11	3	755	21 217	561	1 194	12 488	91 740	42 404	132 384	D
33391	Pump & compressor mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
333913	Measuring & dispensing pump mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	-	6	1	e	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg.	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	11	4	613	17 884	403	818	9 786	49 175	51 160	102 942	D
3344	Semiconductor & other electronic component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	9	5	2 815	69 168	2 032	3 965	41 379	69 075	285 344	359 279	D
3352	Household appliance mfg..	-	2	2	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg....	-	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg..	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg.....	-	1	1	f	D	D	D	D	D	D	D	D

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

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	JOHNSON CITY—KINGSPORT—BRISTOL, TN—VA MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	18	11	2 723	92 563	2 161	4 627	65 621	246 913	248 711	498 182	11 680
3363	Motor vehicle parts mfg ...	-	11	7	2 560	88 465	2 029	4 358	62 900	239 701	238 432	480 585	11 316
33633	Motor vehicle steering & suspension component (except spring) mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	1	1	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	1	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	1	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	3	1	e	D	D	D	D	D	D	D	106
336399	All other motor vehicle parts mfg	-	3	1	e	D	D	D	D	D	D	D	106
337	Furniture & related product mfg	1	35	10	1 254	24 433	1 127	2 085	19 656	52 053	39 663	91 653	1 821
3371	Household & institutional furniture & kitchen cabinet mfg	1	30	7	1 076	20 064	969	1 803	16 533	43 497	32 961	76 393	1 723
33712	Household & institutional furniture mfg	1	15	6	985	18 100	896	1 681	15 245	38 900	31 230	70 032	1 163
337122	Nonupholstered wood household furniture mfg	-	5	2	f	D	D	D	D	D	D	D	782
339	Miscellaneous mfg	1	45	9	860	20 338	721	1 437	15 682	44 432	32 627	76 938	3 891
3391	Medical equipment & supplies mfg	3	20	3	284	5 711	257	503	4 814	10 770	4 300	14 892	292
33911	Medical equipment & supplies mfg	3	20	3	284	5 711	257	503	4 814	10 770	4 300	14 892	292
3399	Other miscellaneous mfg ..	-	25	6	576	14 627	464	934	10 868	33 662	28 327	62 046	3 599
33999	All other miscellaneous mfg	-	8	3	438	11 312	372	751	8 877	27 244	25 989	53 227	D
	KNOXVILLE, TN MSA												
31-33	Manufacturing	-	894	289	43 228	1 311 278	31 562	62 757	786 862	4 430 018	4 190 037	8 608 726	234 044
311	Food mfg	1	61	20	2 538	59 858	1 616	3 120	33 383	268 430	320 294	587 503	9 525
3116	Meat product mfg	4	11	6	663	12 450	503	995	7 981	34 771	84 535	118 903	1 636
31161	Animal slaughtering & processing	4	11	6	663	12 450	503	995	7 981	34 771	84 535	118 903	1 636
311612	Meat processed from carcasses	-	5	3	419	7 870	306	613	4 848	19 711	45 298	64 570	953
3118	Bakeries & tortilla mfg	-	14	6	911	19 943	340	635	6 084	49 459	18 111	67 545	D
31181	Bread & bakery product mfg	-	14	6	911	19 943	340	635	6 084	49 459	18 111	67 545	D
311812	Commercial bakeries ..	-	6	5	853	19 536	306	603	5 852	48 596	17 620	66 191	D
3119	Other food mfg	-	7	3	416	9 739	332	664	6 566	53 993	39 805	93 514	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	1	17	8	1 384	31 021	1 185	2 304	24 109	67 141	48 337	115 821	6 051
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
313111	Yarn spinning mills ...	-	1	1	e	D	D	D	D	D	D	D	D
3132	Fabric mills	-	11	5	785	19 017	659	1 367	15 088	36 845	31 429	68 974	4 470
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
3133	Textile & fabric finishing & fabric coating mills	9	5	2	e	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	9	5	2	e	D	D	D	D	D	D	D	D
314	Textile product mills	1	19	4	288	5 948	226	357	3 180	14 496	18 786	31 824	654

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	KNOXVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg	1	29	20	5 271	100 522	4 769	8 980	83 989	324 847	335 149	668 784	6 277
3152	Cut & sew apparel mfg	1	24	18	5 075	97 345	4 599	8 646	81 474	318 104	329 126	656 074	D
31521	Cut & sew apparel contractors	9	5	2	e	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	9	2	2	e	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	3	13	11	2 327	43 850	2 087	4 021	36 606	105 180	175 810	290 970	3 792
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	9	3	3	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
315228	Men's & boys' cut & sew other outerwear mfg	1	3	3	f	D	D	D	D	D	D	D	383
31523	Women's & girls' cut & sew apparel mfg	—	3	2	g	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	—	2	1	g	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	3	3	f	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg	—	3	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	37	11	1 000	28 302	844	1 824	20 333	73 188	93 250	164 723	1 599
3219	Other wood product mfg ...	—	27	8	783	22 236	672	1 444	16 656	58 693	81 366	138 283	997
32199	All other wood product mfg	—	14	6	653	19 761	560	1 250	14 806	52 250	77 284	128 075	772
321991	Manufactured home (mobile home) mfg ..	—	3	3	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	15	9	952	34 236	770	1 677	23 098	129 714	133 855	263 533	9 444
3221	Pulp, paper, & paperboard mills	—	2	2	e	D	D	D	D	D	D	D	D
32212	Paper mills	—	2	2	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	13	7	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	12	6	472	16 222	364	784	9 090	42 616	43 899	86 191	1 640
323	Printing & related support activities	2	126	20	1 775	49 481	1 341	2 593	30 816	93 609	110 561	202 895	7 609
3231	Printing & related support activities	2	126	20	1 775	49 481	1 341	2 593	30 816	93 609	110 561	202 895	7 609
32311	Printing	2	118	19	1 707	47 902	1 291	2 528	29 776	90 332	109 775	198 804	7 412
323110	Commercial lithographic printing ..	2	55	7	427	10 838	319	559	6 588	21 294	15 270	36 514	1 084
323112	Commercial flexographic printing ..	6	6	5	363	12 954	273	514	5 865	25 369	28 116	52 843	1 698
323113	Commercial screen printing	—	12	3	509	14 073	425	965	10 980	16 504	51 716	67 825	D
325	Chemical mfg	—	27	7	4 064	190 042	1 199	2 363	43 529	730 335	205 091	935 663	14 859
3251	Basic chemical mfg	—	12	2	h	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	6	2	h	D	D	D	D	D	D	D	583
325188	All other basic inorganic chemical mfg	—	6	2	h	D	D	D	D	D	D	D	583
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	1	1	e	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	—	1	1	e	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	36	23	3 461	91 447	2 701	5 566	63 594	226 322	221 063	454 703	17 567
3261	Plastics product mfg	1	32	21	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	—	5	4	462	12 765	366	809	8 503	32 437	43 773	75 718	2 310
326121	Unsupported plastics profile shape mfg	1	4	3	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	24	16	1 415	27 677	1 024	1 625	15 788	95 827	92 588	196 131	6 282
326199	All other plastics product mfg	1	21	16	1 391	27 315	1 009	1 599	15 522	94 937	91 857	194 507	6 246

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	KNOXVILLE, TN MSA—Con.													
31-33	Manufacturing—Con.													
326	Plastics & rubber products mfg—Con.													
3262	Rubber product mfg	-	4	2	g	D	D	D	D	D	D	D	D	
32621	Tire mfg	-	3	1	f	D	D	D	D	D	D	D	D	
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D	
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D	
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg	-	53	23		1 618	43 804	1 288	2 613	31 104	131 607	96 915	227 430	14 631
3271	Clay product & refractory mfg	-	11	5		567	14 020	457	1 004	10 531	40 213	18 535	58 524	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	10	4	e		D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg	-	3	3	e		D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	29	13		690	20 822	539	1 054	14 260	67 915	56 580	123 759	6 604
32739	Other concrete product mfg	-	13	3		255	7 006	197	392	4 382	19 882	8 084	27 999	757
327390	Other concrete product mfg	-	13	3		255	7 006	197	392	4 382	19 882	8 084	27 999	757
331	Primary metal mfg	-	13	7	g		D	D	D	D	D	D	D	25 970
3313	Alumina & aluminum production & processing...	-	3	3	g		D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing.....	-	3	3	g		D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	f		D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	g		D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	139	37		3 518	109 174	2 801	5 740	75 941	267 629	195 204	459 107	20 234
3323	Architectural & structural metals mfg	1	36	12		901	25 502	712	1 248	16 220	41 128	50 782	91 553	1 800
33231	Plate work & fabricated structural product mfg ..	1	23	9		715	21 186	561	1 037	13 213	33 859	45 414	78 961	1 566
332312	Fabricated structural metal mfg	-	19	8		664	19 661	525	977	12 383	31 177	43 878	74 923	1 234
3324	Boiler, tank, & shipping container mfg	3	7	3		308	8 855	258	520	7 062	20 224	13 460	33 586	885
3325	Hardware mfg	-	1	1	e		D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	e		D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	e		D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	53	6		523	18 319	367	1 079	11 053	33 721	12 853	45 584	3 142
33271	Machine shops	2	50	4		449	14 912	301	558	8 735	25 772	10 838	36 231	1 707
332710	Machine shops	2	50	4		449	14 912	301	558	8 735	25 772	10 838	36 231	1 707
3328	Coating, engraving, heat treating, & allied activities.	1	16	6		340	8 298	290	510	5 999	20 821	18 517	39 239	1 490
33281	Coating, engraving, heat treating, & allied activities.....	1	16	6		340	8 298	290	510	5 999	20 821	18 517	39 239	1 490
3329	Other fabricated metal product mfg	-	19	6		885	31 313	692	1 428	22 685	90 004	61 893	150 283	8 015
33299	All other fabricated metal product mfg	-	19	6		885	31 313	692	1 428	22 685	90 004	61 893	150 283	8 015
332991	Ball & roller bearing mfg	-	2	1	e		D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	-	10	3		385	13 895	250	504	8 860	33 434	13 096	45 306	2 061
333	Machinery mfg	3	54	16		1 145	36 365	754	1 375	19 401	92 600	73 885	163 890	13 809
3332	Industrial machinery mfg ..	6	7	5	e		D	D	D	D	D	D	D	2 905
33329	Other industrial machinery mfg	7	6	4		292	9 581	172	296	4 645	20 380	17 520	37 486	D
333298	All other industrial machinery mfg	7	6	4		292	9 581	172	296	4 645	20 380	17 520	37 486	D
3339	Other general-purpose machinery mfg	1	14	4		277	8 650	200	338	4 494	17 770	10 994	28 800	550

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	KNOXVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	46	18	2 213	85 037	1 246	2 391	32 071	178 928	152 734	336 324	17 510
3343	Audio & video equipment mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	25	10	1 073	45 798	461	955	13 950	118 969	53 753	173 295	6 650
33451	Navigational, measuring, medical, & control instruments mfg.....	-	25	10	1 073	45 798	461	955	13 950	118 969	53 753	173 295	6 650
334516	Analytical laboratory instrument mfg.....	-	9	4	e	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg.....	-	7	4	528	18 332	277	558	7 546	39 872	24 618	65 014	3 949
335	Electrical equipment, appliance, & component mfg.....	5	16	6	428	11 862	289	574	6 176	25 851	22 712	48 918	1 616
336	Transportation equipment mfg.....	1	45	26	7 655	240 494	6 077	12 487	167 389	920 141	876 757	1 795 734	56 372
3363	Motor vehicle parts mfg ...	1	24	16	5 576	174 306	4 346	8 876	118 472	780 766	686 889	1 466 257	50 497
33631	Motor vehicle gasoline engine & engine parts mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg....	-	2	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg.....	-	3	3	354	10 327	221	463	5 710	35 509	35 534	72 089	D
336350	Motor vehicle transmission & power train parts mfg.....	-	3	3	354	10 327	221	463	5 710	35 509	35 534	72 089	D
33636	Motor vehicle seating & interior trim mfg.....	9	3	2	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg....	9	3	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.....	-	9	6	3 312	107 632	2 644	5 267	77 215	650 454	462 630	1 108 332	29 345
336399	All other motor vehicle parts mfg.....	-	9	6	3 312	107 632	2 644	5 267	77 215	650 454	462 630	1 108 332	29 345
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.....	-	2	2	f	D	D	D	D	D	D	D	D
3366	Ship & boat building.....	-	8	5	1 017	27 237	951	2 077	23 062	62 942	146 639	209 682	3 463
33661	Ship & boat building.....	-	8	5	1 017	27 237	951	2 077	23 062	62 942	146 639	209 682	3 463
336612	Boat building.....	-	7	5	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	3	64	15	1 153	22 547	927	1 677	16 731	43 971	44 065	87 703	1 862
3371	Household & institutional furniture & kitchen cabinet mfg.....	4	55	13	1 061	20 314	864	1 565	15 691	37 688	37 679	75 061	1 438
33711	Wood kitchen cabinet & counter top mfg.....	6	26	5	399	7 923	318	562	6 031	15 216	12 163	27 341	251
337110	Wood kitchen cabinet & counter top mfg....	6	26	5	399	7 923	318	562	6 031	15 216	12 163	27 341	251
33712	Household & institutional furniture mfg.....	2	29	8	662	12 391	546	1 003	9 660	22 472	25 516	47 720	1 187
337121	Upholstered household furniture mfg.....	4	8	4	281	6 272	253	468	4 963	11 365	14 668	25 885	481
337122	Nonupholstered wood household furniture mfg.....	1	15	4	351	5 397	268	513	4 191	10 363	9 775	19 936	625

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	KNOXVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	77	14	2 153	47 636	1 506	2 875	27 182	103 003	102 450	216 465	5 460
3391	Medical equipment & supplies mfg.....	2	41	9	863	14 586	588	1 018	9 197	25 657	56 568	83 452	2 872
33911	Medical equipment & supplies mfg.....	2	41	9	863	14 586	588	1 018	9 197	25 657	56 568	83 452	2 872
339113	Surgical appliance & supplies mfg.....	-	6	4	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	-	36	5	1 290	33 050	918	1 857	17 985	77 346	45 882	133 013	2 588
33995	Sign mfg.....	-	19	2	698	19 407	413	936	7 929	38 350	21 297	69 121	1 342
339950	Sign mfg.....	-	19	2	698	19 407	413	936	7 929	38 350	21 297	69 121	1 342
33999	All other miscellaneous mfg.....	-	8	3	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
	MEMPHIS, TN-AR-MS MSA												
31-33	Manufacturing	1	1 156	477	58 220	1 868 363	40 561	81 917	1 076 050	6 082 711	8 462 352	14 625 342	505 509
	Memphis, TN-AR-MS MSA (AR Part).....	-	45	23	2 323	56 172	1 824	3 584	36 590	224 511	401 064	620 626	21 399
	Memphis, TN-AR-MS MSA (MS Part).....	1	131	63	7 232	213 445	5 374	11 549	137 729	565 089	805 064	1 369 616	43 345
	Memphis, TN-AR-MS MSA (TN Part).....	-	980	391	48 665	1 598 746	33 363	66 784	901 731	5 293 111	7 256 224	12 635 100	440 765
311	Food mfg.....	-	60	34	5 398	194 011	3 669	7 623	123 463	847 366	1 129 076	1 976 901	D
3112	Grain & oilseed milling	-	7	6	g	D	D	D	D	D	D	D	45 119
31122	Starch & vegetable fats & oils mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
311221	Wet corn milling.....	-	1	1	e	D	D	D	D	D	D	D	D
311222	Soybean processing ..	-	1	1	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg....	-	1	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg..	-	1	1	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg....	-	2	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	1	8	5	f	D	D	D	D	D	D	D	8 715
31141	Frozen food mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	4	8	5	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	7	7	4	266	5 659	223	423	4 237	14 100	44 185	58 370	1 023
31161	Animal slaughtering & processing.....	7	7	4	266	5 659	223	423	4 237	14 100	44 185	58 370	1 023
3118	Bakeries & tortilla mfg.....	1	15	5	1 536	50 692	705	1 287	22 416	123 442	58 008	181 368	4 646
31181	Bread & bakery product mfg.....	-	14	5	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	6	5	1 461	49 244	655	1 193	21 472	119 305	53 765	172 981	D
3119	Other food mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
31199	All other food mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	9	6	991	41 169	698	1 479	28 329	318 813	347 180	667 829	19 719
3121	Beverage mfg.....	-	8	5	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	-	7	4	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
31212	Breweries.....	-	1	1	e	D	D	D	D	D	D	D	D
312120	Breweries.....	-	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	28	12	f	D	D	D	D	D	D	D	1 441
3141	Textile furnishings mills....	-	13	4	e	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	13	4	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills.....	-	2	2	e	D	D	D	D	D	D	D	D
3149	Other textile product mills..	-	15	8	f	D	D	D	D	D	D	D	D
31499	All other textile product mills.....	1	7	4	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	4	3	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MEMPHIS, TN—AR—MS MSA—Con.												
	Manufacturing—Con.												
315	Apparel mfg	2	22	11	1 944	63 971	966	2 004	15 571	77 889	84 177	157 123	4 124
3152	Cut & sew apparel mfg	2	15	8	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	9	4	2	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	9	1	1	e	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	3	3		1 038	47 362	279	483	5 009	46 880	58 411	99 854
315299	All other cut & sew apparel mfg	—	3	3		1 038	47 362	279	483	5 009	46 880	58 411	99 854
321	Wood product mfg	3	50	17	g	D	D	D	D	D	D	D	3 433
3219	Other wood product mfg	3	41	15	1 045	21 559	908	1 716	17 017	41 860	47 574	90 752	2 723
32191	Millwork	3	16	7	674	14 841	591	1 169	12 102	30 271	33 180	64 616	1 438
321918	Other millwork (including flooring) ...	3	9	5	580	11 756	512	1 010	9 487	24 214	26 574	51 999	814
322	Paper mfg	—	36	28	4 348	139 135	3 247	6 988	84 890	326 763	405 708	730 699	34 887
3221	Pulp, paper, & paperboard mills	—	5	5	1 138	49 089	804	1 640	27 237	127 912	154 127	281 982	8 645
32211	Pulp mills	—	2	2	e	D	D	D	D	D	D	D	D
322110	Pulp mills	—	2	2	e	D	D	D	D	D	D	D	D
32212	Paper mills	—	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	31	23	3 210	90 046	2 443	5 348	57 653	198 851	251 581	448 717	26 242
32221	Paperboard container mfg	—	20	16	1 849	50 965	1 464	3 119	34 715	106 567	156 015	259 541	D
322211	Corrugated & solid fiber box mfg	—	14	12	1 454	37 940	1 184	2 449	24 677	80 828	132 547	211 987	8 740
322212	Folding paperboard box mfg	—	4	3	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	7	5	1 180	32 933	830	1 919	18 337	81 389	80 575	163 341	D
322222	Coated & laminated paper mfg	—	3	2	f	D	D	D	D	D	D	D	D
322224	Uncoated paper & multiwall bag mfg	—	4	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	186	47	4 751	148 466	3 579	7 004	94 997	341 093	253 934	592 589	26 874
3231	Printing & related support activities	1	186	47	4 751	148 466	3 579	7 004	94 997	341 093	253 934	592 589	26 874
32311	Printing	1	160	41	4 392	135 055	3 305	6 447	87 620	318 735	248 470	564 708	25 616
323110	Commercial lithographic printing ..	1	78	26	2 742	84 692	2 140	4 161	55 809	174 130	138 788	310 603	18 882
323114	Quick printing	2	34	3	287	7 118	183	311	3 767	14 478	7 437	22 226	1 243
323116	Manifold business form printing	—	9	4	411	12 681	278	565	7 279	60 139	40 210	100 187	1 224
323119	Other commercial printing	7	12	2	285	9 055	217	465	6 539	20 921	18 008	38 879	1 356
32312	Support activities for printing	3	26	6	359	13 411	274	557	7 377	22 358	5 464	27 881	1 258
323122	Prepress services	3	20	4	e	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	—	14	4	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	14	4	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	1	1	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical mfg	2	88	49	7 690	280 830	4 190	8 265	126 180	1 521 772	1 220 295	2 743 960	151 286
3251	Basic chemical mfg	2	15	11	1 905	85 631	945	1 932	39 289	471 166	455 059	941 909	95 576
32518	Other basic inorganic chemical mfg	—	3	3	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	3	3	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	5	9	6	1 054	42 249	639	1 320	25 590	187 659	325 241	524 537	D
325199	All other basic organic chemical mfg	5	7	6	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	6	5	4	425	13 705	291	627	10 333	60 406	146 207	210 714	7 893
32521	Resin & synthetic rubber mfg	6	5	4	425	13 705	291	627	10 333	60 406	146 207	210 714	7 893
325211	Plastics material & resin mfg	6	5	4	425	13 705	291	627	10 333	60 406	146 207	210 714	7 893
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	—	6	3	376	14 242	274	564	8 733	44 988	66 841	112 151	D

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	MEMPHIS, TN—AR—MS MSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg	1	9	5	2 240	78 262	1 140	1 944	31 898	633 588	85 349	704 628	15 231
32541	Pharmaceutical & medicine mfg	1	9	5	2 240	78 262	1 140	1 944	31 898	633 588	85 349	704 628	15 231
325412	Pharmaceutical preparation mfg	1	5	4	2 161	74 981	1 101	1 870	30 454	626 485	82 135	693 915	D
3255	Paint, coating, & adhesive mfg	1	18	11	g	D	D	D	D	D	D	D	6 736
32551	Paint & coating mfg	1	10	8	951	31 975	548	1 137	14 245	145 515	190 542	335 217	6 128
325510	Paint & coating mfg	1	10	8	951	31 975	548	1 137	14 245	145 515	190 542	335 217	6 128
3256	Soap, cleaning compound, & toilet preparation mfg ..	4	16	8	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	5	13	6	f	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	8	4	3	512	16 644	224	520	5 429	50 067	32 493	82 025	D
325612	Polish & other sanitation good mfg ..	1	7	2	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	19	7	610	20 005	349	714	8 131	54 349	166 165	218 304	14 159
32599	All other chemical product & preparation mfg	—	12	6	517	16 892	281	572	5 873	44 981	139 610	183 733	13 566
325998	All other miscellaneous chemical product & preparation mfg	—	8	4	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	49	31	2 664	76 739	2 087	4 308	54 678	241 292	253 420	496 519	18 570
3261	Plastics product mfg	—	40	28	h	D	D	D	D	D	D	D	17 983
32611	Unsupported plastics film, sheet, & bag mfg ..	—	4	3	e	D	D	D	D	D	D	D	1 412
326112	Unsupported plastics packaging film & sheet mfg	—	2	2	e	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	—	5	4	367	10 787	323	723	8 890	38 949	30 857	70 993	D
326160	Plastics bottle mfg	—	5	4	367	10 787	323	723	8 890	38 949	30 857	70 993	D
32619	Other plastics product mfg	—	26	18	1 534	41 626	1 153	2 228	27 816	128 475	127 072	253 976	14 246
326199	All other plastics product mfg	—	21	15	1 406	38 349	1 058	2 001	26 048	122 765	123 123	244 316	14 183
327	Nonmetallic mineral product mfg	2	56	21	1 492	44 912	1 103	2 094	29 575	139 298	108 934	247 656	10 884
3271	Clay product & refractory mfg	3	7	3	e	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	3	7	3	e	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	3	7	3	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	3	32	14	838	25 853	569	1 098	14 453	60 483	58 898	118 803	8 097
32732	Ready-mix concrete mfg	4	19	9	520	17 388	338	640	9 033	34 793	42 850	77 754	3 116
327320	Ready-mix concrete mfg	4	19	9	520	17 388	338	640	9 033	34 793	42 850	77 754	3 116
3279	Other nonmetallic mineral product mfg	—	11	3	267	8 976	227	446	7 693	32 506	24 103	56 781	D
32799	All other nonmetallic mineral product mfg ...	—	11	3	267	8 976	227	446	7 693	32 506	24 103	56 781	D
331	Primary metal mfg	—	14	9	907	29 740	749	1 753	23 716	76 102	122 174	198 928	7 491
3312	Steel product mfg from purchased steel	—	3	3	351	10 803	319	745	9 369	40 937	48 437	90 422	D
33122	Rolling & drawing of purchased steel	—	3	3	351	10 803	319	745	9 369	40 937	48 437	90 422	D
331222	Steel wire drawing	—	3	3	351	10 803	319	745	9 369	40 937	48 437	90 422	D
3313	Alumina & aluminum production & processing ..	—	1	1	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	1	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	1	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MEMPHIS, TN—AR—MS MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	—	195	81	6 253	184 820	4 704	9 993	118 581	483 285	587 340	1 067 499	29 381
3321	Forging & stamping	2	15	8	549	18 145	450	1 081	13 962	44 825	52 784	97 647	1 240
33211	Forging & stamping	2	15	8	549	18 145	450	1 081	13 962	44 825	52 784	97 647	1 240
3323	Architectural & structural metals mfg	—	68	35	2 637	70 865	1 947	4 131	41 220	166 734	243 084	412 063	8 362
33231	Plate work & fabricated structural product mfg . .	—	24	11	594	17 602	429	1 024	10 744	41 242	66 856	108 688	1 719
332312	Fabricated structural metal mfg	1	21	10	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	44	24	2 043	53 263	1 518	3 107	30 476	125 492	176 228	303 375	6 643
332321	Metal window & door mfg	—	15	10	987	24 748	725	1 624	13 870	50 925	60 373	112 016	2 395
332322	Sheet metal work mfg	—	24	13	1 015	27 308	762	1 425	16 013	72 119	113 614	186 682	4 101
3324	Boiler, tank, & shipping container mfg	—	14	10	851	30 968	652	1 428	22 504	84 987	153 663	232 685	5 971
33241	Power boiler & heat exchanger mfg	1	4	3	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	1	4	3	e	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	6	4	301	12 807	256	584	10 946	47 505	120 863	163 938	4 256
332431	Metal can mfg	—	3	3	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	52	11	669	21 852	544	965	13 403	40 468	15 302	55 550	3 226
33271	Machine shops	3	45	8	537	17 513	435	731	10 750	31 974	10 111	41 899	2 917
332710	Machine shops	3	45	8	537	17 513	435	731	10 750	31 974	10 111	41 899	2 917
3329	Other fabricated metal product mfg	1	17	10	1 054	28 910	730	1 590	19 296	115 311	76 310	190 565	8 724
33291	Metal valve mfg	1	4	3	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	—	1	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	13	7	f	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	—	4	4	386	10 040	261	583	6 172	56 037	38 576	94 073	4 583
332999	All other miscellaneous fabricated metal product mfg	3	8	3	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	76	36	6 189	189 340	4 640	9 868	115 659	313 144	875 089	1 209 212	22 702
3333	Commercial & service industry machinery mfg . .	—	4	2	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	—	4	2	f	D	D	D	D	D	D	D	D
333313	Office machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	15	10	2 425	64 162	2 074	4 303	47 238	82 284	416 290	521 826	6 426
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	15	10	2 425	64 162	2 074	4 303	47 238	82 284	416 290	521 826	6 426
333411	Air purification equipment mfg	—	6	4	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	8	5	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	30	16	2 177	81 431	1 342	3 136	39 612	116 455	263 222	378 703	8 291
33392	Material handling equipment mfg	—	16	10	1 822	70 633	1 105	2 661	34 169	96 171	236 820	331 287	D
333921	Elevator & moving stairway mfg	—	4	1	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	—	10	8	705	27 961	392	801	10 861	69 481	129 424	199 099	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	—	2	1	e	D	D	D	D	D	D	D	D

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31-33	MEMPHIS, TN-AR-MS MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg	—	31	14	2 634	83 588	1 820	3 595	47 464	197 520	557 568	758 628	21 098
3342	Communications equipment mfg	8	6	3	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	9	3	2	e	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	9	3	2	e	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	8	4	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	8	4	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	8	4	285	8 567	151	336	3 771	18 514	20 356	39 185	655
33451	Navigational, measuring, medical, & control instruments mfg	—	8	4	285	8 567	151	336	3 771	18 514	20 356	39 185	655
335	Electrical equipment, appliance, & component mfg	—	30	14	2 438	65 655	1 557	3 434	40 755	205 229	231 666	431 842	5 724
3351	Electric lighting equipment mfg	—	12	8	g	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	11	7	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	—	5	2	e	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	—	4	3	e	D	D	D	D	D	D	D	2 440
3352	Household appliance mfg..	—	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	2	14	4	e	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	2	14	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	34	16	1 661	46 199	1 290	2 347	24 852	127 936	148 966	271 725	5 809
3362	Motor vehicle body & trailer mfg	3	7	3	563	14 387	487	815	9 286	25 175	45 699	71 010	2 924
33621	Motor vehicle body & trailer mfg	3	7	3	563	14 387	487	815	9 286	25 175	45 699	71 010	2 924
336211	Motor vehicle body mfg	8	5	2	e	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	—	2	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	1	22	10	963	28 821	692	1 337	13 641	92 606	93 044	180 102	D
33634	Motor vehicle brake system mfg	—	2	2	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	—	2	2	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	69	24	1 766	41 058	1 432	2 685	28 910	84 619	90 180	182 497	3 960
3371	Household & institutional furniture & kitchen cabinet mfg	2	40	13	680	15 234	571	1 041	11 251	27 910	26 657	55 366	608
33711	Wood kitchen cabinet & counter top mfg	1	23	8	312	6 271	256	492	4 492	12 454	10 379	22 983	299
337110	Wood kitchen cabinet & counter top mfg ...	1	23	8	312	6 271	256	492	4 492	12 454	10 379	22 983	299
33712	Household & institutional furniture mfg	4	17	5	368	8 963	315	549	6 759	15 456	16 278	32 383	309
3372	Office furniture (including fixtures) mfg	—	21	5	490	10 547	378	659	6 980	13 631	21 171	39 389	939
33721	Office furniture (including fixtures) mfg	—	21	5	490	10 547	378	659	6 980	13 631	21 171	39 389	939
337215	Showcase, partition, shelving, & locker mfg	—	6	2	282	5 359	231	369	3 829	4 899	15 043	24 572	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MEMPHIS, TN—AR—MS MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3379	Other furniture related product mfg.....	-	8	6	596	15 277	483	985	10 679	43 078	42 352	87 742	2 413
33791	Mattress mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
337910	Mattress mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
33792	Blind & shade mfg.....	-	5	4	e	D	D	D	D	D	D	D	D
337920	Blind & shade mfg....	-	5	4	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	99	19	4 073	158 749	2 405	3 757	64 471	469 355	220 678	750 730	32 445
3391	Medical equipment & supplies mfg.....	-	48	8	2 927	134 450	1 544	2 274	49 404	410 156	169 634	639 899	28 747
33911	Medical equipment & supplies mfg.....	-	48	8	2 927	134 450	1 544	2 274	49 404	410 156	169 634	639 899	28 747
339112	Surgical & medical instrument mfg.....	-	8	2	e	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg.....	-	7	4	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	3	51	11	1 146	24 299	861	1 483	15 067	59 199	51 044	110 831	3 698
33992	Sporting & athletic goods mfg.....	3	8	3	268	7 265	178	368	4 195	23 401	15 228	39 749	D
339920	Sporting & athletic goods mfg.....	3	8	3	268	7 265	178	368	4 195	23 401	15 228	39 749	D
33995	Sign mfg.....	2	21	5	e	D	D	D	D	D	D	D	D
339950	Sign mfg.....	2	21	5	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg.....	8	12	2	406	6 318	333	478	4 397	12 279	11 387	23 769	811
339999	All other miscellaneous mfg.....	9	10	1	e	D	D	D	D	D	D	D	D
	NASHVILLE, TN MSA												
31-33	Manufacturing	-	1 544	557	84 573	2 791 872	64 381	126 087	1 827 632	8 384 842	13 175 361	21 496 093	1 007 802
311	Food mfg.....	1	79	32	4 959	147 240	3 315	6 999	90 100	690 572	912 858	1 591 745	39 772
3111	Animal food mfg.....	3	8	5	371	11 932	255	510	7 183	51 765	121 015	172 542	3 379
31111	Animal food mfg.....	3	8	5	371	11 932	255	510	7 183	51 765	121 015	172 542	3 379
3115	Dairy product mfg.....	2	5	5	879	30 279	434	1 110	13 840	117 846	245 432	363 033	4 841
31151	Dairy product (except frozen) mfg.....	2	5	5	879	30 279	434	1 110	13 840	117 846	245 432	363 033	4 841
311511	Fluid milk mfg.....	2	3	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	1	15	6	769	19 858	606	1 011	13 412	72 885	203 652	272 568	D
31161	Animal slaughtering & processing.....	1	15	6	769	19 858	606	1 011	13 412	72 885	203 652	272 568	D
311612	Meat processed from carcasses.....	-	8	3	346	8 333	223	430	5 736	34 799	94 383	129 788	741
311615	Poultry processing....	-	2	2	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg....	-	31	9	2 128	66 571	1 502	3 407	45 252	381 990	273 881	648 435	25 680
31181	Bread & bakery product mfg.....	-	26	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	1	10	5	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour.....	-	5	3	g	D	D	D	D	D	D	D	D
3119	Other food mfg.....	8	10	5	f	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	8	4	2	e	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	9	3	2	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	11	8	1 135	41 710	534	1 085	15 062	838 741	242 654	1 071 600	20 830
3121	Beverage mfg.....	4	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg....	4	5	3	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	4	2	2	f	D	D	D	D	D	D	D	D
3122	Tobacco mfg.....	-	5	4	e	D	D	D	D	D	D	D	D
31222	Tobacco product mfg....	-	3	3	e	D	D	D	D	D	D	D	D
312229	Other tobacco product mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
313	Textile mills.....	-	13	10	2 107	85 790	1 556	3 219	54 772	239 650	300 655	533 711	28 608
3132	Fabric mills.....	-	5	4	1 658	75 048	1 171	2 403	46 695	218 743	277 460	489 789	27 500
31321	Broadwoven fabric mills .	-	3	2	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills.....	-	3	2	e	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills...	-	2	2	g	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills..	-	2	2	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills.....	-	7	5	e	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills.....	1	6	4	e	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NASHVILLE, TN MSA—Con.												
	Manufacturing—Con.												
314	Textile product mills.....	-	46	12	1 790	37 272	1 426	2 534	24 492	108 613	80 362	190 642	5 497
3141	Textile furnishings mills....	-	22	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	20	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills.....	-	2	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills..	-	24	10	g	D	D	D	D	D	D	D	D
31491	Textile bag & canvas mills.....	-	10	5	e	D	D	D	D	D	D	D	D
314911	Textile bag mills.....	-	3	2	303	5 457	251	405	3 297	7 621	7 733	14 537	D
31499	All other textile product mills.....	-	14	5	660	12 546	478	708	7 760	23 815	31 688	57 029	2 064
314999	All other miscellaneous textile product mills..	-	13	5	f	D	D	D	D	D	D	D	2 064
315	Apparel mfg.....	2	27	8	g	D	D	D	D	D	D	D	2 371
3152	Cut & sew apparel mfg....	1	17	6	g	D	D	D	D	D	D	D	2 083
31521	Cut & sew apparel contractors.....	1	10	2	e	D	D	D	D	D	D	D	87
31522	Men's & boys' cut & sew apparel mfg.....	-	5	3	846	15 762	729	1 152	10 576	51 857	11 010	62 491	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg..	-	11	4	f	D	D	D	D	D	D	D	D
3162	Footwear mfg.....	1	4	3	f	D	D	D	D	D	D	D	D
31621	Footwear mfg.....	1	4	3	f	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) mfg..	1	4	3	f	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg.....	-	7	1	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg.....	-	7	1	e	D	D	D	D	D	D	D	D
316991	Luggage mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	77	18	2 885	70 495	2 498	4 530	52 154	208 948	311 828	520 291	12 211
3219	Other wood product mfg....	-	56	16	2 726	66 829	2 360	4 289	49 449	201 098	300 105	500 140	11 569
32191	Millwork.....	-	21	6	962	21 892	825	1 554	17 046	93 620	167 258	260 422	3 213
321911	Wood window & door mfg.....	-	7	3	e	D	D	D	D	D	D	D	2 494
321918	Other millwork (including flooring)...	-	6	3	e	D	D	D	D	D	D	D	604
32199	All other wood product mfg.....	-	24	10	1 707	44 003	1 484	2 634	31 628	105 008	130 175	234 584	8 177
321991	Manufactured home (mobile home) mfg..	-	2	2	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg....	1	18	5	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	27	20	2 133	64 908	1 550	3 363	35 665	175 342	213 919	388 685	15 321
3222	Converted paper product mfg.....	-	27	20	2 133	64 908	1 550	3 363	35 665	175 342	213 919	388 685	15 321
32221	Paperboard container mfg.....	-	15	12	877	25 443	666	1 482	16 993	66 915	106 068	172 866	D
322211	Corrugated & solid fiber box mfg.....	-	12	10	f	D	D	D	D	D	D	D	4 859
32222	Paper bag & coated & treated paper mfg.....	1	9	6	g	D	D	D	D	D	D	D	7 402
322222	Coated & laminated paper mfg.....	-	5	4	626	21 934	365	676	6 927	50 385	57 737	107 945	6 463
322224	Uncoated paper & multiwall bag mfg.....	1	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	284	78	7 514	247 936	5 799	11 610	164 955	521 821	357 843	882 832	36 371
3231	Printing & related support activities.....	2	284	78	7 514	247 936	5 799	11 610	164 955	521 821	357 843	882 832	36 371
32311	Printing.....	1	235	61	5 885	188 069	4 541	8 891	123 811	415 164	319 727	738 455	29 884
323110	Commercial lithographic printing...	1	114	35	2 924	98 927	2 270	4 288	61 956	178 254	130 386	308 254	11 998
323111	Commercial gravure printing.....	-	4	2	g	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing..	-	6	4	320	12 011	239	503	7 214	25 223	16 207	41 413	3 274
323113	Commercial screen printing.....	-	26	5	582	12 576	406	979	7 971	20 657	15 952	37 323	349
323114	Quick printing.....	1	50	4	333	7 214	237	315	3 891	15 684	9 586	25 088	1 039
32312	Support activities for printing.....	4	49	17	1 629	59 867	1 258	2 719	41 144	106 657	38 116	144 377	6 487
323121	Traderebinding & related work.....	6	15	4	898	27 266	776	1 694	22 340	44 146	27 676	71 679	3 032
323122	Prepress services.....	2	34	13	731	32 601	482	1 025	18 804	62 511	10 440	72 698	3 455

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	NASHVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg	1	59	14	1 993	71 975	1 281	2 714	40 857	248 243	321 969	573 149	26 899
3251	Basic chemical mfg	—	7	2	262	10 822	177	291	6 829	58 778	48 065	108 303	D
3256	Soap, cleaning compound, & toilet preparation mfg	—	6	2	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg	—	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg	—	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	28	5	600	20 403	376	797	11 654	66 752	122 353	190 975	3 950
32599	All other chemical product & preparation mfg	—	12	3	391	13 648	264	578	8 425	49 519	76 880	126 461	2 427
325991	Custom compounding of purchased resin	—	8	3	363	12 912	253	559	8 226	48 091	75 296	123 437	2 355
326	Plastics & rubber products mfg	1	82	39	5 486	175 263	4 230	8 352	115 525	466 045	583 032	1 039 502	40 735
3261	Plastics product mfg	1	66	33	3 602	93 997	2 753	5 548	57 681	268 302	334 980	593 442	D
32611	Unsupported plastics film, sheet, & bag mfg	3	7	6	437	12 802	367	705	9 897	19 321	50 168	70 202	2 071
32614	Polystyrene foam product mfg	—	3	1	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg	—	3	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	46	24	2 675	66 186	2 137	4 368	42 794	166 615	182 737	340 626	11 718
326199	All other plastics product mfg	1	40	22	2 596	64 049	2 077	4 252	41 492	160 782	177 804	329 877	11 120
3262	Rubber product mfg	—	16	6	1 884	81 266	1 477	2 804	57 844	197 743	248 052	446 060	D
32621	Tire mfg	—	7	3	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	2	1	g	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	6	9	3	e	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	6	5	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	70	29	3 185	154 508	2 539	5 832	122 545	363 234	261 100	624 163	25 551
3272	Glass & glass product mfg	—	10	3	1 727	113 997	1 479	3 519	96 513	218 917	111 789	330 633	15 184
32721	Glass & glass product mfg	—	10	3	1 727	113 997	1 479	3 519	96 513	218 917	111 789	330 633	15 184
327211	Flat glass mfg	—	1	1	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	44	21	1 178	32 945	864	1 921	21 740	125 352	135 187	260 413	6 642
32732	Ready-mix concrete mfg	1	23	10	567	16 933	475	1 102	13 160	64 734	78 246	143 186	4 931
327320	Ready-mix concrete mfg	1	23	10	567	16 933	475	1 102	13 160	64 734	78 246	143 186	4 931
32733	Concrete pipe, brick, & block mfg	2	10	7	316	7 943	184	402	4 018	24 244	17 385	42 218	1 189
327331	Concrete block & brick mfg	1	9	7	e	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	1	11	4	295	8 069	205	417	4 562	36 374	39 556	75 009	522
327390	Other concrete product mfg	1	11	4	295	8 069	205	417	4 562	36 374	39 556	75 009	522
331	Primary metal mfg	—	21	14	2 003	69 308	1 700	3 514	55 630	230 663	471 141	697 852	22 164
3312	Steel product mfg from purchased steel	—	7	5	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	—	6	4	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing	—	5	4	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	3	2	e	D	D	D	D	D	D	D	1 908
3315	Foundries	—	8	5	863	29 037	788	1 662	25 799	84 352	72 418	155 719	D
33152	Nonferrous metal foundries	—	4	3	761	26 080	700	1 472	23 651	77 787	68 489	145 508	D
331524	Aluminum foundries (except die-casting)	—	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	NASHVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	221	87	9 829	287 739	7 295	14 655	185 891	688 007	653 646	1 328 829	53 360
3321	Forging & stamping	-	9	7	701	20 990	523	1 158	13 964	30 507	59 976	88 528	3 028
33211	Forging & stamping	-	9	7	701	20 990	523	1 158	13 964	30 507	59 976	88 528	3 028
332116	Metal stamping	-	6	5	602	17 735	460	1 016	12 156	19 148	46 556	65 836	D
3323	Architectural & structural metals mfg	-	55	21	3 283	96 811	2 230	4 599	56 148	234 962	240 899	470 323	8 471
33231	Plate work & fabricated structural product mfg ..	1	28	8	977	33 926	684	1 491	19 363	80 255	97 006	175 850	1 790
332311	Prefabricated metal building & component mfg	-	4	1	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	1	21	6	587	17 669	449	952	11 484	57 325	65 431	122 076	1 147
33232	Ornamental & architectural metal products mfg	-	27	13	2 306	62 885	1 546	3 108	36 785	154 707	143 893	294 473	6 681
332321	Metal window & door mfg	-	7	5	1 591	42 104	1 059	2 177	25 262	105 858	97 541	200 372	3 219
332322	Sheet metal work mfg ..	2	12	3	320	8 995	216	409	4 744	18 532	24 680	43 578	2 738
332323	Ornamental & architectural metal work mfg	1	8	5	395	11 786	271	522	6 779	30 317	21 672	50 523	724
3324	Boiler, tank, & shipping container mfg	-	5	4	1 402	40 915	1 148	2 246	29 520	66 955	59 802	125 787	8 153
33243	Metal can, box, & other metal container (light gauge) mfg	-	3	2	g	D	D	D	D	D	D	D	D
332439	Other metal container mfg	-	1	1	g	D	D	D	D	D	D	D	D
3325	Hardware mfg	-	4	3	495	14 873	408	696	11 555	63 526	68 635	128 415	D
33251	Hardware mfg	-	4	3	495	14 873	408	696	11 555	63 526	68 635	128 415	D
332510	Hardware mfg	-	4	3	495	14 873	408	696	11 555	63 526	68 635	128 415	D
3326	Spring & wire product mfg ..	1	17	7	673	14 326	489	1 130	10 535	72 901	36 817	109 715	3 663
33261	Spring & wire product mfg	1	17	7	673	14 326	489	1 130	10 535	72 901	36 817	109 715	3 663
332618	Other fabricated wire product mfg	1	15	7	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	74	19	1 349	50 501	1 021	2 031	31 990	102 179	68 606	170 395	12 722
33271	Machine shops	3	64	13	752	27 098	578	1 100	17 600	42 153	27 259	69 150	2 411
332710	Machine shops	3	64	13	752	27 098	578	1 100	17 600	42 153	27 259	69 150	2 411
33272	Turned product & screw, nut, & bolt mfg	1	10	6	597	23 403	443	931	14 390	60 026	41 347	101 245	10 311
332721	Precision turned product mfg	-	5	2	280	7 958	223	481	5 967	23 059	8 668	31 747	D
332722	Bolt, nut, screw, rivet, & washer mfg	2	5	4	317	15 445	220	450	8 423	36 967	32 679	69 498	D
3328	Coating, engraving, heat treating, & allied activities ..	-	32	17	1 055	23 160	853	1 560	15 829	60 581	34 447	95 429	6 985
33281	Coating, engraving, heat treating, & allied activities ..	-	32	17	1 055	23 160	853	1 560	15 829	60 581	34 447	95 429	6 985
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	-	14	7	617	11 985	482	822	7 695	31 589	25 536	57 447	4 648
332813	Electroplating, plating, polishing, anodizing, & coloring	3	14	7	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	15	6	724	21 659	510	1 018	13 448	46 422	81 487	127 438	7 321
33299	All other fabricated metal product mfg	-	15	6	724	21 659	510	1 018	13 448	46 422	81 487	127 438	7 321
332996	Fabricated pipe & pipe fitting mfg	-	3	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	123	49	5 093	188 572	3 558	7 334	102 358	467 368	478 598	958 442	28 249
3332	Industrial machinery mfg ..	1	14	6	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	1	11	5	e	D	D	D	D	D	D	D	667
3333	Commercial & service industry machinery mfg ..	-	11	6	607	17 362	410	686	9 807	73 459	65 890	142 375	1 724
33331	Commercial & service industry machinery mfg	-	11	6	607	17 362	410	686	9 807	73 459	65 890	142 375	1 724
333319	Other commercial & service industry machinery mfg	-	9	5	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NASHVILLE, TN MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	6	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	6	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	4	1	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	64	28	2 190	103 573	1 430	3 177	54 138	169 331	120 808	291 103	13 120
33351	Metalworking machinery mfg	1	64	28	2 190	103 573	1 430	3 177	54 138	169 331	120 808	291 103	13 120
333514	Special die & tool, die set, jig, & fixture mfg .	1	45	19	870	34 907	698	1 482	24 742	61 073	23 046	82 900	4 866
333515	Cutting tool & machine tool accessory mfg . .	—	6	3	486	20 795	305	667	10 029	29 902	18 296	47 133	4 099
333518	Other metalworking machinery mfg	—	3	2	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	23	6	540	17 213	347	622	8 800	69 090	69 911	138 883	3 519
334	Computer & electronic product mfg	—	57	20	2 789	79 857	2 033	3 772	41 576	190 036	560 939	751 226	31 250
3342	Communications equipment mfg	—	4	2	e	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	4	2	e	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	4	2	e	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	—	7	2	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	7	2	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	7	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	12	4	465	15 352	257	532	5 325	39 630	39 314	79 643	1 918
33441	Semiconductor & other electronic component mfg	—	12	4	465	15 352	257	532	5 325	39 630	39 314	79 643	1 918
3345	Navigational, measuring, medical, & control instruments mfg	—	13	6	628	16 216	473	982	7 857	40 136	29 781	69 740	1 368
33451	Navigational, measuring, medical, & control instruments mfg	—	13	6	628	16 216	473	982	7 857	40 136	29 781	69 740	1 368
334513	Industrial process control instrument mfg	—	3	2	e	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	1	15	5	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	1	15	5	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	1	15	5	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	36	21	6 284	170 946	5 339	9 881	119 721	555 307	744 816	1 294 288	31 703
3351	Electric lighting equipment mfg	2	7	4	284	9 938	186	290	3 338	17 308	20 015	37 822	D
33512	Lighting fixture mfg	2	7	4	284	9 938	186	290	3 338	17 308	20 015	37 822	D
3352	Household appliance mfg. .	—	6	6	3 972	100 762	3 593	6 693	78 467	401 885	414 753	807 969	20 294
33521	Small electrical appliance mfg	—	2	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg . . .	—	2	2	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg	—	4	4	h	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	—	3	3	g	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	—	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	NASHVILLE, TN MSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3353	Electrical equipment mfg ..	-	13	8	1 556	45 188	1 199	2 259	28 927	98 115	197 317	297 383	8 120
33531	Electrical equipment mfg	-	13	8	1 556	45 188	1 199	2 259	28 927	98 115	197 317	297 383	8 120
335311	Power, distribution, & specialty transformer mfg	-	1	1	e	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	5	4	768	21 545	629	1 099	14 566	45 319	139 870	182 146	4 509
335313	Switchgear & switchboard apparatus mfg	-	3	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	10	3	472	15 058	361	639	8 989	37 999	112 731	151 114	D
33593	Wiring device mfg	-	4	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	73	43	15 643	656 567	12 285	23 279	458 185	1 881 067	6 188 802	8 037 831	555 677
3361	Motor vehicle mfg	-	3	3	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	2	2	i	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	2	2	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	-	42	24	4 585	142 200	3 756	7 149	105 610	334 030	590 894	925 846	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	5	3	442	9 629	378	604	7 530	35 098	11 852	47 349	255
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	e	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	3	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	3	2	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg	-	1	1	e	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	7	4	766	22 349	655	1 326	18 825	42 450	118 819	162 316	1 874
336370	Motor vehicle metal stamping	-	7	4	766	22 349	655	1 326	18 825	42 450	118 819	162 316	1 874
33639	Other motor vehicle parts mfg	-	17	10	1 675	47 576	1 385	2 181	32 730	104 949	156 518	260 237	28 379
336399	All other motor vehicle parts mfg	-	17	10	1 675	47 576	1 385	2 181	32 730	104 949	156 518	260 237	28 379
3364	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	15	10	g	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	15	10	g	D	D	D	D	D	D	D	D
336611	Ship building & repairing	-	4	2	e	D	D	D	D	D	D	D	D
336612	Boat building	-	11	8	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	103	31	4 472	113 232	3 509	5 718	71 180	206 382	243 006	454 378	16 979
3371	Household & institutional furniture & kitchen cabinet mfg	1	75	13	1 844	45 035	1 449	2 487	31 816	56 617	45 780	103 009	6 311
33711	Wood kitchen cabinet & counter top mfg	2	52	5	486	10 613	404	701	7 661	18 695	16 200	34 483	834
337110	Wood kitchen cabinet & counter top mfg	2	52	5	486	10 613	404	701	7 661	18 695	16 200	34 483	834
33712	Household & institutional furniture mfg	-	23	8	1 358	34 422	1 045	1 786	24 155	37 922	29 580	68 526	5 477
337122	Nonupholstered wood household furniture mfg	-	15	3	472	12 071	421	762	9 233	21 448	13 725	35 252	1 126
337124	Metal household furniture mfg	-	3	2	754	19 136	523	819	12 723	11 055	10 881	22 226	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NASHVILLE, TN MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	—	23	13	2 367	61 757	1 844	2 841	35 231	134 580	170 567	309 491	10 064
33721	Office furniture (including fixtures) mfg	—	23	13	2 367	61 757	1 844	2 841	35 231	134 580	170 567	309 491	10 064
337214	Office furniture (except wood) mfg	—	5	4	g	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	—	8	3	1 075	32 117	968	1 655	20 914	83 243	69 575	151 600	6 377
3379	Other furniture related product mfg	—	5	5	261	6 440	216	390	4 133	15 185	26 659	41 878	604
33791	Mattress mfg	—	5	5	261	6 440	216	390	4 133	15 185	26 659	41 878	604
337910	Mattress mfg	—	5	5	261	6 440	216	390	4 133	15 185	26 659	41 878	604
339	Miscellaneous mfg	1	116	18	2 849	76 892	1 992	4 134	44 033	172 991	174 336	351 196	12 263
3399	Other miscellaneous mfg	—	76	16	2 630	71 246	1 836	3 867	40 541	159 357	167 699	330 716	11 592
33992	Sporting & athletic goods mfg	—	4	2	e	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg	—	4	2	e	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	—	6	2	e	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg	—	3	2	e	D	D	D	D	D	D	D	D
33995	Sign mfg	5	41	4	457	11 689	297	564	6 003	12 288	17 603	31 651	1 979
339950	Sign mfg	5	41	4	457	11 689	297	564	6 003	12 288	17 603	31 651	1 979
33999	All other miscellaneous mfg	—	20	8	1 426	39 066	1 072	2 388	24 283	106 880	54 719	159 326	4 715
339991	Gasket, packing, & sealing device mfg	—	2	2	f	D	D	D	D	D	D	D	D
339992	Musical instrument mfg	—	7	2	f	D	D	D	D	D	D	D	D

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

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

Table 3. Industry Statistics for Counties: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ANDERSON COUNTY, TN												
	Manufacturing	—	107	42	8 559	327 963	4 679	9 356	135 171	994 454	343 243	1 336 167	27 993
325	Chemical mfg	—	5	2	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	—	2	1	h	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	1	1	h	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	1	1	h	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	5	3	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	1	1	f	D	D	D	D	D	D	D	D
32621	Tire mfg	—	1	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	30	10	959	36 760	696	1 520	24 321	83 823	43 790	126 351	8 089
3329	Other fabricated metal product mfg	—	7	2	540	21 257	387	824	15 056	52 208	20 985	71 945	D
33299	All other fabricated metal product mfg	—	7	2	540	21 257	387	824	15 056	52 208	20 985	71 945	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ANDERSON COUNTY, TN—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	-	12	7	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	11	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	11	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	6	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	3	3	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	3	3	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
336413	Other aircraft part & auxiliary equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
BEDFORD COUNTY, TN													
31-33	Manufacturing	-	64	20	5 582	146 575	4 694	8 975	111 984	518 069	801 043	1 302 683	53 681
311	Food mfg	-	3	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	4	668	22 003	570	1 504	17 387	67 335	66 847	135 063	D
3261	Plastics product mfg	-	5	4	668	22 003	570	1 504	17 387	67 335	66 847	135 063	D
336	Transportation equipment mfg	-	5	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
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
339	Miscellaneous mfg	-	11	6	1 540	33 694	1 195	1 830	22 332	130 968	47 600	175 508	4 048
3399	Other miscellaneous mfg ..	-	11	6	1 540	33 694	1 195	1 830	22 332	130 968	47 600	175 508	4 048
33994	Office supplies (except paper) mfg	-	5	5	1 457	32 060	1 154	1 775	21 757	127 106	44 730	168 769	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	-	4	4	f	D	D	D	D	D	D	D	D
BENTON COUNTY, TN													
31-33	Manufacturing	-	17	10	1 150	23 736	988	1 657	17 860	51 743	51 718	97 505	3 666
BLOUNT COUNTY, TN													
31-33	Manufacturing	-	126	37	7 027	251 925	5 466	11 015	175 429	1 306 777	1 527 156	2 806 931	60 692
326	Plastics & rubber products mfg	-	9	5	1 338	35 962	1 031	2 236	24 785	119 210	105 727	232 535	9 265
3261	Plastics product mfg	-	8	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	8	4	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	2	2	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	2	2	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	g	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
BLOUNT COUNTY, TN														
—Con.														
31-33	Manufacturing—Con.													
336	Transportation equipment mfg	—	10	6	g	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	—	4	2	g	D	D	D	D	D	D	D	D	
33639	Other motor vehicle parts mfg	—	2	1	g	D	D	D	D	D	D	D	D	
336399	All other motor vehicle parts mfg	—	2	1	g	D	D	D	D	D	D	D	D	
BRADLEY COUNTY, TN														
31-33	Manufacturing	—	142	57		12 974	363 761	10 883	21 362	258 943	1 616 581	1 331 828	2 931 664	139 444
311	Food mfg	—	10	3		1 122	44 110	966	2 164	33 363	486 357	304 853	784 492	D
3113	Sugar & confectionery product mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ...	—	1	1	f	D	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	—	1	1	f	D	D	D	D	D	D	D	D	D
315	Apparel mfg	—	10	5		2 186	43 515	1 925	3 835	30 352	90 663	84 163	176 982	1 771
3151	Apparel knitting mills	1	4	2	f	D	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills ...	—	3	2	f	D	D	D	D	D	D	D	D	D
315119	Other hosiery & sock mills	—	2	2	f	D	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ...	—	5	3	g	D	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	3	3	g	D	D	D	D	D	D	D	D	1 376
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
325	Chemical mfg	1	5	3	f	D	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	5	4		3 691	118 658	3 108	6 342	86 065	409 266	388 418	795 401	D
3352	Household appliance mfg ...	—	3	2	h	D	D	D	D	D	D	D	D	D
33522	Major appliance mfg ...	—	3	2	h	D	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	—	2	2	h	D	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
33591	Battery mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	—	1	1	f	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	25	7		1 472	26 923	1 374	2 478	21 264	43 361	57 058	101 356	765
3371	Household & institutional furniture & kitchen cabinet mfg	—	19	6		1 361	23 844	1 279	2 322	19 519	37 685	50 760	89 264	667
33712	Household & institutional furniture mfg	—	15	6		1 334	23 170	1 253	2 276	19 063	36 544	50 046	87 401	D
337121	Upholstered household furniture mfg	—	13	5	g	D	D	D	D	D	D	D	D	644
339	Miscellaneous mfg	—	13	4	g	D	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	—	3	1	f	D	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	3	1	f	D	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	—	1	1	f	D	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	—	10	3		506	10 675	447	814	8 309	31 215	20 439	51 920	D
CAMPBELL COUNTY, TN														
31-33	Manufacturing	1	53	19		1 945	49 068	1 529	3 006	31 201	112 082	132 810	243 708	10 534
332	Fabricated metal product mfg	1	16	7		741	22 094	542	1 162	13 519	47 399	40 364	87 608	2 258

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CARROLL COUNTY, TN													
31-33	Manufacturing	1	50	19	3 103	64 126	2 585	4 968	47 899	180 985	277 441	456 748	13 244
315	Apparel mfg	2	7	5	984	13 401	818	1 526	9 672	34 677	50 008	83 549	1 610
3152	Cut & sew apparel mfg	2	7	5	984	13 401	818	1 526	9 672	34 677	50 008	83 549	1 610
332	Fabricated metal product mfg	—	13	3	657	13 413	547	1 071	10 093	45 631	19 647	65 310	3 929
CARTER COUNTY, TN													
31-33	Manufacturing	—	48	16	1 960	50 681	1 556	2 867	35 088	138 850	130 817	273 414	D
332	Fabricated metal product mfg	1	12	3	510	14 014	427	801	10 004	29 310	19 251	48 423	D
CHEATHAM COUNTY, TN													
31-33	Manufacturing	—	42	10	3 060	81 880	2 757	4 991	62 235	300 731	282 688	579 709	D
335	Electrical equipment, appliance, & component mfg	—	5	2	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	—	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	—	1	1	g	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg	—	1	1	g	D	D	D	D	D	D	D	D
CHESTER COUNTY, TN													
31-33	Manufacturing	—	24	9	853	18 654	716	1 281	12 588	29 017	47 008	76 003	4 905
CLAIBORNE COUNTY, TN													
31-33	Manufacturing	2	34	19	3 584	67 114	3 010	5 391	44 881	160 386	159 577	317 059	4 854
315	Apparel mfg	3	7	5	1 002	16 025	927	1 907	13 329	18 883	16 249	36 102	824
3151	Apparel knitting mills	3	4	3	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	3	4	3	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	6	4	1 904	36 448	1 563	2 288	20 722	71 530	77 892	143 562	1 159
3371	Household & institutional furniture & kitchen cabinet mfg	—	6	4	1 904	36 448	1 563	2 288	20 722	71 530	77 892	143 562	1 159
33712	Household & institutional furniture mfg	—	4	4	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	—	2	2	g	D	D	D	D	D	D	D	D
CLAY COUNTY, TN													
31-33	Manufacturing	3	8	5	771	13 738	641	1 311	8 699	46 944	39 144	85 674	1 542
COCKE COUNTY, TN													
31-33	Manufacturing	2	40	16	2 627	64 627	2 058	4 150	45 786	161 712	227 730	382 819	16 398
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
337	Furniture & related product mfg	—	6	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	—	5	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	—	4	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
COFFEE COUNTY, TN													
31-33	Manufacturing	-	67	40	5 595	178 432	4 376	8 607	115 489	476 437	615 883	1 082 948	56 161
315	Apparel mfg	-	4	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	2	1	f	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	9	7	1 058	37 981	824	1 613	24 518	76 401	127 685	208 205	12 446
3363	Motor vehicle parts mfg ...	-	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	8	4	836	26 932	684	1 437	20 049	157 405	75 864	224 813	D
3399	Other miscellaneous mfg ..	-	5	4	825	26 665	675	1 421	19 867	156 851	75 730	224 118	D
CROCKETT COUNTY, TN													
31-33	Manufacturing	-	16	7	1 241	26 597	1 036	1 583	13 056	61 156	98 163	160 796	4 619
311	Food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
CUMBERLAND COUNTY, TN													
31-33	Manufacturing	-	47	19	2 437	58 947	1 994	3 623	41 227	228 437	211 628	442 913	8 336
DAVIDSON COUNTY, TN													
31-33	Manufacturing	1	752	261	31 716	1 099 974	23 000	46 213	688 576	3 419 602	3 334 852	6 721 810	213 969
311	Food mfg.....	3	49	18	2 557	73 202	1 500	2 958	37 033	238 686	487 756	721 652	D
3115	Dairy product mfg	3	3	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	3	3	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	4	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
31161	Animal slaughtering & processing.....	-	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
3118	Bakeries & tortilla mfg.....	4	16	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	8	8	5	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	7	5	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	4	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	4	5	3	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	4	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	-	7	7	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	g	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills ..	-	2	2	g	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills ..	-	2	2	g	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	29	8	1 408	30 590	1 108	2 041	20 384	98 518	71 423	172 405	D
3141	Textile furnishings mills....	-	12	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	10	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	2	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills..	-	17	6	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	12	4	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	11	4	626	11 727	453	663	7 270	22 904	30 523	55 008	D
321	Wood product mfg	-	17	6	756	17 071	658	1 278	13 555	83 438	145 551	228 806	D
3219	Other wood product mfg....	-	15	6	f	D	D	D	D	D	D	D	D
32191	Millwork	-	7	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D
3222	Converted paper product mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	DAVIDSON COUNTY, TN—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	2	185	60	5 181	178 380	3 954	8 106	113 644	319 033	194 667	513 332	22 826
3231	Printing & related support activities.....	2	185	60	5 181	178 380	3 954	8 106	113 644	319 033	194 667	513 332	22 826
32311	Printing	1	142	44	3 628	120 993	2 749	5 496	74 035	218 115	157 675	375 832	16 722
323110	Commercial lithographic printing ..	1	70	29	2 457	88 177	1 919	3 768	54 916	154 490	113 144	267 071	10 334
32312	Support activities for printing	4	43	16	1 553	57 387	1 205	2 610	39 609	100 918	36 992	137 500	6 104
323121	Tradebinding & related work	6	14	4	f	D	D	D	D	D	D	D	D
323122	Prepress services	2	29	12	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	31	8	817	29 046	539	1 046	18 227	126 171	167 652	296 614	D
326	Plastics & rubber products mfg	1	32	15	1 390	35 200	997	1 741	19 328	136 413	151 369	286 485	D
3261	Plastics product mfg	—	27	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	16	9	637	13 978	535	911	9 625	36 776	34 297	71 273	D
326199	All other plastics product mfg	2	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	32	12	2 285	130 790	1 932	4 502	108 035	276 186	184 859	461 526	19 603
3272	Glass & glass product mfg .	—	7	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	7	3	g	D	D	D	D	D	D	D	D
327211	Flat glass mfg	—	1	1	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	19	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	93	35	3 715	106 955	2 884	5 714	71 227	229 362	202 242	427 281	15 133
3323	Architectural & structural metals mfg	1	23	6	718	20 929	472	917	10 993	52 285	58 764	110 077	3 407
33232	Ornamental & architectural metal products mfg	1	10	5	551	16 091	364	714	8 590	40 421	39 503	78 867	D
3324	Boiler, tank, & shipping container mfg	—	2	2	g	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	1	1	g	D	D	D	D	D	D	D	D
332439	Other metal container mfg	—	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	1	45	20	1 967	91 656	1 161	2 508	41 847	152 451	142 573	296 553	10 118
3335	Metalworking machinery mfg	—	20	10	1 423	74 064	837	1 856	32 881	119 070	98 176	219 212	8 948
33351	Metalworking machinery mfg	—	20	10	1 423	74 064	837	1 856	32 881	119 070	98 176	219 212	8 948
333518	Other metalworking machinery mfg	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	28	9	f	D	D	D	D	D	D	D	12 650
3346	Mfg & reproducing magnetic & optical media .	1	14	5	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	1	14	5	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	1	14	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	22	11	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	—	1	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	50	16	829	20 482	647	1 193	13 106	39 892	44 184	84 665	1 611
339	Miscellaneous mfg	2	71	10	1 309	31 893	1 004	2 036	20 147	69 449	53 042	120 603	D
3399	Other miscellaneous mfg ..	1	48	8	1 140	27 383	884	1 829	17 334	59 151	47 392	104 504	D
33999	All other miscellaneous mfg	—	15	5	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DECATUR COUNTY, TN													
31-33	Manufacturing	-	35	10	1 113	21 760	922	1 705	16 035	66 788	71 489	137 021	2 020
DEKALB COUNTY, TN													
31-33	Manufacturing	1	28	15	2 740	65 727	2 062	4 307	38 804	140 070	194 625	333 892	D
315	Apparel mfg	1	5	5	529	8 349	446	862	5 969	24 949	29 825	53 938	D
3152	Cut & sew apparel mfg	1	5	5	529	8 349	446	862	5 969	24 949	29 825	53 938	D
336	Transportation equipment mfg	1	4	4	1 400	37 995	969	2 171	20 143	62 810	124 271	189 456	D
3363	Motor vehicle parts mfg ...	1	4	4	1 400	37 995	969	2 171	20 143	62 810	124 271	189 456	D
33634	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	2	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	2	2	2	f	D	D	D	D	D	D	D	D
DICKSON COUNTY, TN													
31-33	Manufacturing	-	51	21	3 574	102 517	3 130	5 827	78 982	348 924	365 464	710 283	33 857
323	Printing & related support activities	-	6	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	6	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	6	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	702	24 682	632	1 274	21 440	91 545	147 512	237 058	D
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	1	1	f	D	D	D	D	D	D	D	D
DYER COUNTY, TN													
31-33	Manufacturing	-	42	18	6 404	183 451	5 059	10 682	120 297	494 675	630 596	1 121 396	53 146
311	Food mfg	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	f	D	D	D	D	D	D	D	D
313	Textile mills	-	2	1	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills ..	-	1	1	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	3	1	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	3	1	g	D	D	D	D	D	D	D	D
32311	Printing	-	3	1	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	3	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	6	4	1 138	39 317	896	1 873	26 801	83 131	151 261	235 304	D
3262	Rubber product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	3	3	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	6	2	f	D	D	D	D	D	D	D	2 248
334	Computer & electronic product mfg	-	2	2	f	D	D	D	D	D	D	D	D
FAYETTE COUNTY, TN													
31-33	Manufacturing	1	39	15	1 193	33 295	918	1 794	23 376	166 427	105 722	271 610	5 288

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FENTRESS COUNTY, TN													
31-33	Manufacturing	4	31	12	1 471	22 458	1 299	2 374	18 259	62 103	79 889	141 374	2 077
315	Apparel mfg	-	9	7	889	12 119	831	1 487	10 786	36 794	28 088	64 686	480
3152	Cut & sew apparel mfg	-	7	7	f	D	D	D	D	D	D	D	D
FRANKLIN COUNTY, TN													
31-33	Manufacturing	-	43	14	1 872	53 132	1 539	3 359	37 830	164 841	272 668	438 188	8 879
326	Plastics & rubber products mfg	-	6	3	725	21 415	533	1 079	13 164	41 163	45 051	86 416	5 949
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D
GIBSON COUNTY, TN													
31-33	Manufacturing	1	90	38	7 607	200 746	5 856	11 721	138 734	529 963	554 692	1 085 604	26 019
315	Apparel mfg	-	6	2	f	D	D	D	D	D	D	D	70
3152	Cut & sew apparel mfg	-	4	2	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	16	6	1 897	55 946	1 427	2 350	38 052	186 256	53 483	237 167	3 867
3323	Architectural & structural metals mfg	-	3	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	2	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	3	3	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	3	3	g	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	5	3	1 090	26 621	973	2 387	22 811	61 636	74 075	135 581	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
335312	Motor & generator mfg	-	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	9	4	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	9	2	1	f	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg	9	1	1	f	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg	9	1	1	f	D	D	D	D	D	D	D	D
GILES COUNTY, TN													
31-33	Manufacturing	-	48	21	3 515	104 622	3 001	6 026	75 072	370 476	307 153	679 715	15 102
321	Wood product mfg	-	7	3	513	12 792	463	982	10 145	30 969	59 268	88 828	525
331	Primary metal mfg	-	4	2	505	17 624	401	815	12 871	58 488	66 431	124 833	D
332	Fabricated metal product mfg	1	6	2	f	D	D	D	D	D	D	D	1 318
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GRAINGER COUNTY, TN													
31-33	Manufacturing	1	35	16	1 321	30 627	1 099	2 051	21 101	71 169	108 785	180 898	2 282
321	Wood product mfg	-	8	5	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg . . .	-	5	4	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	4	4	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg . .	-	4	4	f	D	D	D	D	D	D	D	D
GREENE COUNTY, TN													
31-33	Manufacturing	-	107	49	7 990	198 030	6 430	12 684	128 202	465 690	766 603	1 296 707	38 025
322	Paper mfg	-	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	3	994	25 060	823	1 747	17 659	68 488	81 490	150 385	4 292
3315	Foundries	-	3	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) . .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	24	8	891	17 620	718	1 380	12 584	37 146	31 155	68 110	1 912
3325	Hardware mfg	-	3	3	587	10 265	464	861	7 331	23 510	20 788	44 119	D
33251	Hardware mfg	-	3	3	587	10 265	464	861	7 331	23 510	20 788	44 119	D
332510	Hardware mfg	-	3	3	587	10 265	464	861	7 331	23 510	20 788	44 119	D
333	Machinery mfg	-	14	8	1 636	37 902	1 375	2 569	24 903	145 303	92 750	257 030	5 758
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . .	-	2	2	f	D	D	D	D	D	D	D	D
333411	Air purification equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	6	5	662	19 323	488	885	9 417	54 655	32 496	85 717	2 219
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
337	Furniture & related product mfg	-	7	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	6	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	4	2	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
HAMBLEN COUNTY, TN													
31-33	Manufacturing	1	129	69	14 586	369 578	12 020	23 173	265 813	955 980	1 089 846	2 039 164	101 267
311	Food mfg	9	4	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	17	8	663	14 110	564	1 200	10 219	28 609	39 106	67 658	1 274
3219	Other wood product mfg . . .	2	13	6	516	11 033	436	923	8 061	21 340	21 858	43 258	604
32191	Millwork	2	10	6	505	10 890	427	910	7 959	20 983	21 362	42 406	D
322	Paper mfg	-	6	6	766	21 756	490	921	12 445	62 515	87 357	144 556	5 800
3222	Converted paper product mfg	-	6	6	766	21 756	490	921	12 445	62 515	87 357	144 556	5 800
325	Chemical mfg	-	6	4	854	27 795	638	1 246	19 347	95 288	125 889	224 457	7 671
326	Plastics & rubber products mfg	3	15	11	841	21 408	726	1 570	15 116	52 185	65 259	113 560	6 406
3261	Plastics product mfg	3	14	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	14	6	867	25 822	758	1 418	20 138	65 033	34 841	97 456	6 445
333	Machinery mfg	-	15	8	936	29 482	635	1 023	14 166	51 976	102 599	155 872	11 704

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	HAMBLEN COUNTY, TN												
	—Con.												
31-33	Manufacturing—												
	Con.												
336	Transportation equipment mfg	-	4	3	2 475	77 982	1 925	3 618	58 414	185 464	152 571	338 998	44 025
3363	Motor vehicle parts mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg	-	1	1	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	21	10	5 172	108 782	4 595	9 169	84 099	248 854	274 694	520 795	13 907
3371	Household & institutional furniture & kitchen cabinet mfg	-	16	9	5 107	107 589	4 534	9 072	83 317	247 087	272 864	517 204	13 865
33712	Household & institutional furniture mfg	-	11	7	h	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	4	2	h	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	5	4	g	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	9	2	f	D	D	D	D	D	D	D	975
3399	Other miscellaneous mfg ..	-	5	2	f	D	D	D	D	D	D	D	D
	HAMILTON COUNTY, TN												
31-33	Manufacturing	-	515	208	32 559	991 381	23 344	46 441	590 069	2 498 215	2 997 078	5 493 190	225 173
311	Food mfg	-	31	19	i	D	D	D	D	D	D	D	D
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	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	3	1 509	25 408	1 369	2 239	20 402	49 447	109 267	153 508	1 943
3118	Bakeries & tortilla mfg	-	15	6	i	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	12	3	i	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	4	3	i	D	D	D	D	D	D	D	D
313	Textile mills	1	12	5	g	D	D	D	D	D	D	D	D
3131	Fiber, yarn, & thread mills .	-	3	1	f	D	D	D	D	D	D	D	D
31311	Fiber, yarn, & thread mills	-	3	1	f	D	D	D	D	D	D	D	D
313111	Yarn spinning mills ...	-	2	1	f	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	3	5	3	f	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	3	4	3	f	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills	3	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	4	14	7	582	9 603	503	921	7 203	16 293	18 889	36 856	D
316	Leather & allied product mfg .	2	8	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	17	12	1 412	48 356	1 035	2 238	32 135	141 197	160 649	298 364	D
3222	Converted paper product mfg	-	13	8	932	26 163	680	1 409	15 520	70 681	100 261	170 148	D
32221	Paperboard container mfg	-	10	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	4	74	20	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	4	74	20	g	D	D	D	D	D	D	D	D
32311	Printing	5	64	19	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	6	29	10	g	D	D	D	D	D	D	D	D
323113	Commercial screen printing	-	18	8	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HAMILTON COUNTY, TN—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg	-	33	17	h	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	5	5	g	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg	-	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	27	11	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	21	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	20	8	g	D	D	D	D	D	D	D	D
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
331	Primary metal mfg	-	12	7	h	D	D	D	D	D	D	D	10 640
3315	Foundries	-	9	6	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	-	6	5	h	D	D	D	D	D	D	D	D
331511	Iron foundries	-	5	4	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	94	34	h	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	14	5	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	41	19	h	D	D	D	D	D	D	D	D
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
334	Computer & electronic product mfg	3	15	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	12	6	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
337	Furniture & related product mfg	1	29	6	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	36	7	f	D	D	D	D	D	D	D	D
HARDEMAN COUNTY, TN													
31-33	Manufacturing	-	37	14	1 957	51 404	1 637	3 198	37 841	98 650	178 108	274 711	4 066
333	Machinery mfg	-	4	3	517	18 689	440	1 138	14 884	35 563	79 434	114 973	D
HARDIN COUNTY, TN													
31-33	Manufacturing	-	52	22	2 628	69 967	2 185	4 039	53 463	201 671	328 360	530 223	34 850
315	Apparel mfg	-	4	3	631	6 782	534	891	5 345	13 717	34 552	48 311	773
3152	Cut & sew apparel mfg	-	4	3	631	6 782	534	891	5 345	13 717	34 552	48 311	773
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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HAWKINS COUNTY, TN													
31-33	Manufacturing	-	50	24	6 534	219 397	5 342	11 124	158 640	557 016	477 641	1 040 897	34 717
323	Printing & related support activities.....	-	6	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	6	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	6	4	g	D	D	D	D	D	D	D	D
323117	Book printing.....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32592	Explosives mfg	-	1	1	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	5	2	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	-	4	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	4	2	f	D	D	D	D	D	D	D	D
327211	Flat glass mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	1	1	g	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	1	1	g	D	D	D	D	D	D	D	D
HAYWOOD COUNTY, TN													
31-33	Manufacturing	-	23	12	2 477	64 148	2 111	4 450	49 084	159 420	262 805	425 468	10 585
326	Plastics & rubber products mfg	-	2	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg	-	1	1	f	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	3	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	2	2	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
HENDERSON COUNTY, TN													
31-33	Manufacturing	-	47	16	4 302	101 633	3 485	7 460	77 722	253 700	452 353	710 877	25 871
332	Fabricated metal product mfg	-	9	5	1 522	38 977	1 181	2 533	28 440	107 743	189 406	300 171	16 762
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HENRY COUNTY, TN													
31-33	Manufacturing	-	66	21	3 483	79 686	2 775	5 420	52 169	202 289	300 584	506 074	14 532
326	Plastics & rubber products mfg	-	4	4	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
HICKMAN COUNTY, TN													
31-33	Manufacturing	-	31	9	1 017	22 174	800	1 627	17 888	74 017	65 776	139 458	4 228
HUMPHREYS COUNTY, TN													
31-33	Manufacturing	-	29	14	1 976	75 382	1 440	2 700	51 041	500 299	358 567	854 066	53 643
325	Chemical mfg	-	5	4	982	48 492	685	1 262	32 663	433 790	248 876	678 582	42 524
3251	Basic chemical mfg	-	4	3	f	D	D	D	D	D	D	D	D
32513	Dye & pigment mfg	-	1	1	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg	-	1	1	f	D	D	D	D	D	D	D	D
JACKSON COUNTY, TN													
31-33	Manufacturing	-	8	5	681	11 768	585	1 034	8 017	68 341	37 436	104 898	D
JEFFERSON COUNTY, TN													
31-33	Manufacturing	-	56	25	2 880	59 731	2 352	3 917	40 956	205 249	229 960	434 024	8 046
337	Furniture & related product mfg	1	13	4	575	7 814	431	693	5 867	17 185	17 421	34 211	865
3371	Household & institutional furniture & kitchen cabinet mfg	-	11	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	10	4	560	7 642	419	683	5 751	16 859	17 137	33 601	D
JOHNSON COUNTY, TN													
31-33	Manufacturing	-	19	9	1 392	29 206	1 261	2 420	26 031	95 086	111 895	206 441	5 303
315	Apparel mfg	-	3	3	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
KNOX COUNTY, TN													
31-33	Manufacturing	1	493	154	20 782	550 328	15 926	30 970	346 958	1 486 477	1 739 439	3 245 519	101 134
311	Food mfg	-	31	13	1 764	39 007	992	1 910	17 905	133 050	109 810	242 334	4 096
3118	Bakeries & tortilla mfg	-	12	6	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	12	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	6	5	853	19 536	306	603	5 852	48 596	17 620	66 191	D
315	Apparel mfg	1	24	16	h	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	1	20	15	h	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	3	11	9	g	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	9	3	3	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
315228	Men's & boys' cut & sew other outerwear mfg	1	3	3	f	D	D	D	D	D	D	D	383
31523	Women's & girls' cut & sew apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	g	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	KNOX COUNTY, TN—Con.												
	Manufacturing—Con.												
322	Paper mfg	-	12	6	611	20 824	489	1 036	13 801	52 063	95 856	148 016	D
3222	Converted paper product mfg	-	11	5	f	D	D	D	D	D	D	D	2 089
323	Printing & related support activities	2	88	19	1 590	45 835	1 209	2 384	28 516	86 357	105 902	190 947	7 139
3231	Printing & related support activities	2	88	19	1 590	45 835	1 209	2 384	28 516	86 357	105 902	190 947	7 139
32311	Printing	2	81	18	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	15	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	2	16	11	1 006	22 908	792	1 413	14 671	55 501	60 020	115 249	D
3261	Plastics product mfg	2	15	11	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	5	10	8	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	5	9	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	25	9	663	19 107	539	1 076	13 678	57 818	46 674	103 084	6 188
332	Fabricated metal product mfg	-	68	23	1 880	52 263	1 544	2 786	37 040	116 599	119 292	235 651	6 387
3323	Architectural & structural metals mfg	-	23	11	796	22 816	632	1 079	14 528	36 366	45 010	80 949	1 527
33231	Plate work & fabricated structural product mfg ..	-	15	9	671	19 990	530	979	12 476	31 240	41 514	72 419	D
332312	Fabricated structural metal mfg	-	13	8	f	D	D	D	D	D	D	D	D
333	Machinery mfg	6	25	9	603	20 280	359	674	9 812	41 608	28 919	69 937	2 125
334	Computer & electronic product mfg	-	22	5	1 087	47 859	546	1 087	13 770	103 520	102 479	207 906	14 730
3343	Audio & video equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	13	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	13	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	21	9	2 497	73 334	1 986	4 151	49 465	139 839	308 901	453 529	20 286
3363	Motor vehicle parts mfg ...	5	13	7	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	2	1	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	33	7	544	11 271	423	821	8 007	23 206	22 799	46 064	1 336
339	Miscellaneous mfg	1	50	6	1 508	37 118	1 059	2 022	20 043	89 314	51 787	150 747	4 089
3399	Other miscellaneous mfg ...	-	24	3	g	D	D	D	D	D	D	D	2 376
33995	Sign mfg	-	14	2	f	D	D	D	D	D	D	D	D
339950	Sign mfg	-	14	2	f	D	D	D	D	D	D	D	D
	LAUDERDALE COUNTY, TN												
31-33	Manufacturing	-	22	14	3 525	74 427	3 226	6 376	59 954	194 609	163 397	353 817	13 024
321	Wood product mfg	-	4	2	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321911	Wood window & door 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
3261	Plastics product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	2	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	2	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
LAUDERDALE COUNTY, TN—Con.														
31-33	Manufacturing—Con.													
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D	
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D	
LAWRENCE COUNTY, TN														
31-33	Manufacturing	-	56	22		5 501	145 840	4 943	9 990	122 860	405 053	655 751	1 063 794	20 804
315	Apparel mfg	2	5	4	f	D	D	D	D	D	D	D	D	
3152	Cut & sew apparel mfg	2	5	4	f	D	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg	-	7	2	f	D	D	D	D	D	D	D	7 561	
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D	
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D	
327215	Glass product mfg made of purchased glass	-	1	1	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	1	19	8	533	11 629	448	864	8 615	38 771	35 503	73 628	1 217	
333	Machinery mfg	-	4	2	h	D	D	D	D	D	D	D	D	
3331	Agriculture, construction, & mining machinery mfg.	-	1	1	h	D	D	D	D	D	D	D	D	
33311	Agricultural implement mfg	-	1	1	h	D	D	D	D	D	D	D	D	
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D	
LEWIS COUNTY, TN														
31-33	Manufacturing	-	22	3		600	16 429	486	993	12 506	46 977	54 065	101 136	3 582
LINCOLN COUNTY, TN														
31-33	Manufacturing	-	43	15		2 381	62 923	1 834	3 546	42 075	200 646	258 115	455 010	8 779
333	Machinery mfg	-	3	3	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	
LOUDON COUNTY, TN														
31-33	Manufacturing	-	45	22		3 150	92 995	2 575	5 696	68 784	458 511	350 359	806 659	28 289
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D	
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D	
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D	

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MCMINN COUNTY, TN													
31-33	Manufacturing	1	74	38	8 791	279 355	6 641	13 644	197 409	763 606	817 175	1 572 222	70 421
311	Food mfg	9	4	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	9	1	1	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	9	1	1	g	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	9	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	10	8	1 029	16 190	869	1 658	12 505	35 543	29 616	63 777	4 569
3151	Apparel knitting mills	-	5	4	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	4	3	700	11 954	649	1 325	10 077	30 275	27 744	56 622	D
315119	Other hosiery & sock mills	-	4	3	700	11 954	649	1 325	10 077	30 275	27 744	56 622	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
322122	Newsprint mills	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	6	4	1 102	31 596	860	1 645	22 138	58 852	67 923	129 089	5 976
3261	Plastics product mfg	1	4	3	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	-	1	1	f	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	3	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	12	6	938	17 824	764	1 547	13 993	31 809	28 160	60 852	1 470
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	5	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	5	5	875	16 467	715	1 439	12 740	29 046	26 028	55 871	D
337122	Nonupholstered wood household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
MCMINN COUNTY, TN													
31-33	Manufacturing	1	48	21	2 632	58 210	1 990	3 633	37 931	195 736	134 677	328 065	8 437
315	Apparel mfg	1	8	7	506	6 514	467	697	5 475	22 870	17 081	38 738	135
3152	Cut & sew apparel mfg	1	8	7	506	6 514	467	697	5 475	22 870	17 081	38 738	135
326	Plastics & rubber products mfg	-	3	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	3	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	2	1	f	D	D	D	D	D	D	D	D
326191	Plastics plumbing fixture mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
MACON COUNTY, TN													
31-33	Manufacturing	1	38	12	1 403	25 937	1 203	2 029	19 482	30 602	48 312	80 147	4 786

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MADISON COUNTY, TN													
31-33	Manufacturing	-	138	66	12 429	382 467	9 959	20 747	260 465	1 512 569	2 028 980	3 473 443	183 849
311	Food mfg.....	-	11	7	2 014	76 773	1 804	3 939	59 609	429 641	545 720	936 187	D
3119	Other food mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg..	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product mfg.....	1	14	4	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg...	-	10	2	f	D	D	D	D	D	D	D	D
32191	Millwork.....	-	2	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)...	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	7	6	824	25 636	706	1 491	19 219	87 526	130 481	216 869	17 004
3222	Converted paper product mfg.....	-	7	6	824	25 636	706	1 491	19 219	87 526	130 481	216 869	17 004
327	Nonmetallic mineral product mfg.....	-	8	6	710	23 029	570	1 371	17 840	51 102	45 735	98 230	6 171
331	Primary metal mfg.....	-	5	5	943	36 975	729	1 550	25 552	141 422	287 856	424 701	3 492
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	9	989	30 596	802	1 741	22 412	105 572	68 256	171 757	10 488
333	Machinery mfg.....	-	8	5	h	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
3339	Other general-purpose machinery mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33522	Major appliance mfg....	-	1	1	f	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	6	4	1 058	31 986	734	1 744	18 538	106 460	137 232	239 088	9 838
3363	Motor vehicle parts mfg....	-	5	3	f	D	D	D	D	D	D	D	D
MARION COUNTY, TN													
31-33	Manufacturing	-	29	13	1 726	38 548	1 594	2 903	31 441	92 046	121 618	212 811	8 744
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARSHALL COUNTY, TN													
31-33	Manufacturing	-	45	26	7 552	169 404	6 365	12 854	124 867	633 001	714 359	1 349 122	49 415
325	Chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg .	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	6	4	832	22 687	649	1 202	13 584	76 173	87 622	167 527	13 808
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	3	h	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	5	5	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	5	5	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	3	3	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D
MAURY COUNTY, TN													
31-33	Manufacturing	-	75	31	11 361	532 581	9 315	18 696	417 117	1 995 300	2 455 794	4 431 676	94 576
326	Plastics & rubber products mfg	4	7	4	681	16 651	530	1 079	10 490	45 731	45 085	90 440	D
3261	Plastics product mfg	4	6	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	5	3	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	5	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	1	1	i	D	D	D	D	D	D	D	D
MEIGS COUNTY, TN													
31-33	Manufacturing	-	13	6	764	14 168	702	1 292	12 422	31 745	93 053	125 140	D
MONROE COUNTY, TN													
31-33	Manufacturing	-	84	35	5 488	144 793	4 402	8 542	97 830	373 617	463 032	834 896	35 370
315	Apparel mfg	1	26	11	874	8 805	808	985	7 181	32 177	20 696	53 240	431
3152	Cut & sew apparel mfg	3	24	9	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	3	13	6	f	D	D	D	D	D	D	D	239
327	Nonmetallic mineral product mfg	-	6	4	646	20 732	520	1 183	14 759	56 236	57 227	113 967	5 238
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
327215	Glass product mfg made of purchased glass.....	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MONROE COUNTY, TN													
—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	—	3	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	12	9	2 480	71 180	1 947	4 001	47 469	170 869	273 535	446 315	19 599
3363	Motor vehicle parts mfg ...	—	3	2	g	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
33636	Motor vehicle seating & interior trim mfg	—	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	—	5	5	g	D	D	D	D	D	D	D	D
33661	Ship & boat building	—	5	5	g	D	D	D	D	D	D	D	D
336612	Boat building	—	5	5	g	D	D	D	D	D	D	D	D
MONTGOMERY COUNTY, TN													
31-33	Manufacturing	—	83	32	6 519	182 743	5 474	10 900	133 882	715 718	553 952	1 271 622	62 975
323	Printing & related support activities.....	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
3231	Printing & related support activities.....	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
32311	Printing	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
323110	Commercial lithographic printing ..	—	2	1	f	D	D	D	D	D	D	D	D
323117	Book printing.....	—	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	6	4	540	14 678	472	1 084	11 904	31 718	27 883	58 201	D
333	Machinery mfg	—	2	2	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
MORGAN COUNTY, TN													
31-33	Manufacturing	1	24	6	925	20 141	804	1 300	13 247	45 245	51 994	98 839	2 019
OBION COUNTY, TN													
31-33	Manufacturing	—	46	24	5 656	195 545	4 804	10 565	157 356	665 747	494 689	1 139 995	13 306
315	Apparel mfg	3	4	4	733	9 452	631	1 066	7 300	24 326	54 648	71 414	1 164
3152	Cut & sew apparel mfg	3	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	4	3	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	1	1	h	D	D	D	D	D	D	D	D
32621	Tire mfg	—	1	1	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	10	3	f	D	D	D	D	D	D	D	1 658

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	OBION COUNTY, TN—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	6	4	627	16 183	495	1 205	11 611	47 195	36 277	81 901	1 600
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) mfg	-	1	1	f	D	D	D	D	D	D	D	D
	OVERTON COUNTY, TN												
31-33	Manufacturing	1	29	12	1 249	23 730	1 065	1 932	17 659	48 641	77 488	126 359	3 829
	PERRY COUNTY, TN												
31-33	Manufacturing	-	15	5	1 689	34 936	1 518	3 953	27 817	58 401	111 732	169 833	16 205
326	Plastics & rubber products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
	POLK COUNTY, TN												
31-33	Manufacturing	1	22	11	1 061	18 282	875	1 588	12 980	34 549	37 730	72 132	4 903
	PUTNAM COUNTY, TN												
31-33	Manufacturing	-	141	58	9 927	232 314	7 927	15 016	156 377	736 421	1 025 473	1 757 673	37 171
311	Food mfg	-	7	2	h	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	1	1	g	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ..	-	1	1	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	1	1	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	7	4	872	13 158	794	1 282	11 450	39 940	5 316	44 844	457
3152	Cut & sew apparel mfg	-	7	4	872	13 158	794	1 282	11 450	39 940	5 316	44 844	457
31521	Cut & sew apparel contractors	-	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	25	8	826	24 365	583	1 112	13 866	65 085	69 457	132 674	4 099
333	Machinery mfg	2	17	6	953	22 801	711	1 439	14 044	50 166	38 275	88 492	3 692
336	Transportation equipment mfg	-	9	6	2 002	57 128	1 476	2 802	36 950	240 166	585 549	825 834	15 396
3363	Motor vehicle parts mfg ...	-	8	6	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	5	3	2	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	5	3	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	13	6	853	17 727	528	947	10 319	48 865	26 650	75 390	D
3399	Other miscellaneous mfg ..	-	9	5	811	16 980	498	895	9 838	47 541	25 943	73 343	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RHEA COUNTY, TN													
31-33	Manufacturing	-	40	14	4 674	105 624	4 082	8 459	85 832	233 834	200 293	434 702	5 497
315	Apparel mfg	-	9	5	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	6	3	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D
315221	Men's & boys' cut & sew underwear & nightwear mfg	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	1	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	8	1	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	4	1	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	3	1	g	D	D	D	D	D	D	D	D
ROANE COUNTY, TN													
31-33	Manufacturing	-	42	17	2 075	47 064	1 628	3 318	30 359	143 362	116 009	255 975	12 991
315	Apparel mfg	-	5	4	772	11 735	599	1 260	7 926	35 695	11 141	46 463	D
ROBERTSON COUNTY, TN													
31-33	Manufacturing	-	74	37	5 019	127 238	3 948	7 592	84 565	296 293	443 343	730 873	D
335	Electrical equipment, appliance, & component mfg	-	3	3	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	2	2	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	2	5	4	767	20 263	586	945	13 684	73 907	65 520	139 819	D
3363	Motor vehicle parts mfg ...	-	3	3	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	6	2	f	D	D	D	D	D	D	D	D
RUTHERFORD COUNTY, TN													
31-33	Manufacturing	-	191	74	19 096	754 682	14 819	29 216	516 153	2 481 131	6 370 508	8 851 852	584 684
311	Food mfg	-	7	6	1 703	57 077	1 319	3 035	41 936	385 816	340 833	719 785	D
3118	Bakeries & tortilla mfg	-	4	3	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	2	2	g	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	9	2	914	34 040	598	1 389	19 359	96 649	125 437	221 456	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	16	8	1 995	86 209	1 558	3 022	61 711	198 551	276 670	475 503	D
3262	Rubber product mfg	-	5	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	3	2	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	31	13	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	6	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	20	9	2 005	54 800	1 637	3 220	35 931	233 065	263 005	506 406	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	1	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	2	1	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	2	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	8	4	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RUTHERFORD COUNTY, TN—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	14	10	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	i	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	1	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	8	6	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	5	4	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	5	4	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	-	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	17	3	714	19 879	549	984	13 320	15 393	10 202	24 880	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	15	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	2	1	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
SCOTT COUNTY, TN													
31-33	Manufacturing	-	40	11	2 915	56 453	2 483	5 206	39 141	143 087	189 161	329 953	9 923
315	Apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	12	4	1 101	21 673	930	1 858	12 646	60 116	63 914	120 667	5 245
3219	Other wood product mfg ...	-	6	3	1 052	20 931	886	1 827	12 017	58 529	61 385	116 537	D
32191	Millwork	-	3	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) ...	-	1	1	f	D	D	D	D	D	D	D	D
SEQUATCHIE COUNTY, TN													
31-33	Manufacturing	-	11	4	948	18 304	858	1 763	14 579	77 815	145 234	223 792	2 033
333	Machinery mfg	-	1	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
SEVIER COUNTY, TN													
31-33	Manufacturing	2	103	23	2 611	64 476	2 046	3 930	43 257	141 610	130 294	272 356	10 501
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	-	5	2	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SHELBY COUNTY, TN													
31-33	Manufacturing	1	902	355	44 145	1 476 888	29 794	59 506	815 718	4 800 476	6 869 956	11 758 677	408 911
311	Food mfg	1	47	26	4 230	158 264	2 675	5 622	97 467	664 209	950 684	1 617 177	60 822
3112	Grain & oilseed milling	-	5	5	g	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg	-	4	4	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	14	5	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	13	5	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	6	5	1 461	49 244	655	1 193	21 472	119 305	53 765	172 981	D
312	Beverage & tobacco product mfg	-	8	5	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	7	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	19	8	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	12	5	g	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	-	3	3	1 038	47 362	279	483	5 009	46 880	58 411	99 854	D
315299	All other cut & sew apparel mfg	-	3	3	1 038	47 362	279	483	5 009	46 880	58 411	99 854	D
321	Wood product mfg	3	40	14	1 046	22 634	902	1 765	17 481	44 387	51 243	96 979	2 673
3219	Other wood product mfg	3	33	12	f	D	D	D	D	D	D	D	D
32191	Millwork	3	13	7	659	14 515	579	1 144	11 825	29 468	32 339	62 978	D
321918	Other millwork (including flooring)	3	9	5	580	11 756	512	1 010	9 487	24 214	26 574	51 999	814
322	Paper mfg	-	28	21	h	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
322121	Paper (except newsprint) mills	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	24	17	2 533	71 376	1 901	4 262	45 406	148 362	175 654	324 243	D
32221	Paperboard container mfg	-	15	11	g	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	9	7	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	5	4	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	163	38	h	D	D	D	D	D	D	D	D
3231	Printing & related support activities	2	163	38	h	D	D	D	D	D	D	D	D
32311	Printing	2	137	32	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	2	66	20	g	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	-	11	3	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	11	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	76	42	i	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	2	14	10	g	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	5	9	6	1 054	42 249	639	1 320	25 590	187 659	325 241	524 537	D
325199	All other basic organic chemical mfg	5	7	6	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	1	9	5	2 240	78 262	1 140	1 944	31 898	633 588	85 349	704 628	15 231
32541	Pharmaceutical & medicine mfg	1	9	5	2 240	78 262	1 140	1 944	31 898	633 588	85 349	704 628	15 231
325412	Pharmaceutical preparation mfg	1	5	4	2 161	74 981	1 101	1 870	30 454	626 485	82 135	693 915	D
3255	Paint, coating, & adhesive mfg	1	15	10	f	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	2	9	7	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	2	9	7	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg	3	15	7	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	4	12	5	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	SHELBY COUNTY, TN—Con.													
	Manufacturing—Con.													
326	Plastics & rubber products mfg	-	28	19	g	D	D	D	D	D	D	D	7 418	
3261	Plastics product mfg	-	23	18	g	D	D	D	D	D	D	D	D	
32619	Other plastics product mfg	-	15	11	f	D	D	D	D	D	D	D	3 691	
326199	All other plastics product mfg	-	11	8	f	D	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg	3	38	13		821	24 045	572	1 049	13 849	57 640	58 976	116 352	4 875
3273	Cement & concrete product mfg	4	20	10	f	D	D	D	D	D	D	D	4 168	
332	Fabricated metal product mfg	-	142	59		4 429	130 772	3 411	7 415	83 870	280 471	353 706	633 894	14 752
3323	Architectural & structural metals mfg	-	50	28		2 089	56 100	1 548	3 356	32 714	122 161	171 984	296 587	D
33231	Plate work & fabricated structural product mfg ..	-	18	10		500	14 997	363	892	9 431	32 991	46 100	79 491	D
332312	Fabricated structural metal mfg	-	18	10		500	14 997	363	892	9 431	32 991	46 100	79 491	D
33232	Ornamental & architectural metal products mfg	-	32	18		1 589	41 103	1 185	2 464	23 283	89 170	125 884	217 096	D
332321	Metal window & door mfg	-	13	8	f	D	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg ..	-	15	9	f	D	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	-	11	8	f	D	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	38	9	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg	-	54	26		4 702	141 362	3 748	7 908	93 745	241 860	770 440	1 034 634	D
3333	Commercial & service industry machinery mfg ..	-	3	2	f	D	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg ..	-	3	2	f	D	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	11	7	g	D	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	11	7	g	D	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	5	3	g	D	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	22	12	g	D	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	10	7	f	D	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	29	12	h	D	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	8	6	3	f	D	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	21	10	g	D	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg	-	8	5	f	D	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ..	-	1	1	f	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	22	10	g	D	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	15	8	f	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	55	18		1 355	31 850	1 083	1 984	21 668	59 919	63 719	128 879	D
3371	Household & institutional furniture & kitchen cabinet mfg	2	31	10	f	D	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
SHELBY COUNTY, TN														
—Con.														
31-33	Manufacturing—Con.													
339	Miscellaneous mfg	—	84	16	h	D	D	D	D	D	D	D	D	
3391	Medical equipment & supplies mfg	—	42	8	h	D	D	D	D	D	D	D	D	
33911	Medical equipment & supplies mfg	—	42	8	h	D	D	D	D	D	D	D	D	
339113	Surgical appliance & supplies mfg	—	7	4	g	D	D	D	D	D	D	D	D	
3399	Other miscellaneous mfg	4	42	8	f	D	D	D	D	D	D	D	D	
SMITH COUNTY, TN														
31-33	Manufacturing	1	23	11		1 710	44 877	1 361	2 799	33 330	149 263	251 319	396 612	12 406
SULLIVAN COUNTY, TN														
31-33	Manufacturing	—	182	59		18 602	816 736	12 238	24 749	430 089	2 364 749	1 829 199	4 245 150	310 116
313	Textile mills	—	4	2	f	D	D	D	D	D	D	D	D	D
3132	Fabric mills	—	1	1	f	D	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	—	1	1	f	D	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	—	1	1	f	D	D	D	D	D	D	D	D	D
315	Apparel mfg	5	6	5		530	7 201	497	835	6 177	11 394	4 754	16 253	D
322	Paper mfg	—	3	3	f	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
32212	Paper mills	—	1	1	f	D	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	f	D	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	31	7	g	D	D	D	D	D	D	D	D	D
3231	Printing & related support activities	—	31	7	g	D	D	D	D	D	D	D	D	D
32311	Printing	—	30	7	g	D	D	D	D	D	D	D	D	D
323117	Book printing	—	2	2	g	D	D	D	D	D	D	D	D	D
325	Chemical mfg	—	9	3	j	D	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	—	4	1	j	D	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	1	1	j	D	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	1	1	j	D	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	2	2	f	D	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	11	4		600	18 276	493	1 106	13 944	62 892	29 868	92 248	D
331	Primary metal mfg	1	12	6	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	30	5		563	14 434	425	830	9 733	30 092	30 073	61 024	D
SUMNER COUNTY, TN														
31-33	Manufacturing	—	205	77		11 852	333 759	9 157	17 191	218 516	803 829	1 131 727	1 932 019	64 636
321	Wood product mfg	—	13	3	g	D	D	D	D	D	D	D	D	D
3219	Other wood product mfg	—	11	3	g	D	D	D	D	D	D	D	D	D
32199	All other wood product mfg	—	4	2	f	D	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	D
323	Printing & related support activities	—	20	3		955	28 697	794	1 460	21 868	70 293	66 675	140 808	D
3231	Printing & related support activities	—	20	3		955	28 697	794	1 460	21 868	70 293	66 675	140 808	D
32311	Printing	—	18	3	f	D	D	D	D	D	D	D	D	D
323111	Commercial gravure printing	—	1	1	f	D	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	11	8		1 121	29 799	810	1 707	14 821	57 038	92 123	140 624	D
3261	Plastics product mfg	1	10	7	g	D	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	9	6	g	D	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	7	6		1 026	26 296	763	1 626	13 874	54 318	87 188	132 587	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SUMNER COUNTY, TN													
—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	40	15	2 410	70 742	1 766	3 662	43 748	182 202	169 657	347 972	10 562
3323	Architectural & structural metals mfg	-	10	5	g	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg ..	-	5	3	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	5	2	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	4	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	29	11	628	24 101	395	773	12 652	51 306	51 300	103 134	2 392
335	Electrical equipment, appliance, & component mfg	-	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	18	10	1 656	45 589	1 414	2 761	36 331	118 427	233 418	353 633	D
3363	Motor vehicle parts mfg ...	-	13	8	1 572	43 950	1 349	2 664	35 217	116 148	230 286	348 036	D
33634	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	5	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	5	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	13	6	1 595	35 610	1 138	1 545	20 315	57 774	114 596	178 828	D
3372	Office furniture (including fixtures) mfg	-	3	3	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	3	3	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	-	2	2	g	D	D	D	D	D	D	D	D
TIPTON COUNTY, TN													
31-33	Manufacturing	-	39	21	3 327	88 563	2 651	5 484	62 637	326 208	280 546	604 813	26 566
323	Printing & related support activities	-	3	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	3	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	3	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	6	4	628	16 085	393	755	9 168	82 231	47 309	128 658	7 476
3329	Other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	D
TROUSDALE COUNTY, TN													
31-33	Manufacturing	1	12	6	693	14 371	552	1 135	10 043	32 255	32 054	63 842	1 206
UNICOI COUNTY, TN													
31-33	Manufacturing	-	22	10	1 518	36 251	1 330	2 455	27 329	129 691	74 388	202 499	D
UNION COUNTY, TN													
31-33	Manufacturing	-	20	11	1 099	23 591	870	1 790	17 263	42 189	99 546	141 094	5 435

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WARREN COUNTY, TN													
31-33	Manufacturing	-	73	35	6 610	192 537	5 542	11 629	150 592	523 349	613 898	1 133 324	45 959
326	Plastics & rubber products mfg	-	7	3	f	D	D	D	D	D	D	D	401
3261	Plastics product mfg	-	7	3	f	D	D	D	D	D	D	D	401
32619	Other plastics product mfg	-	6	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	6	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	13	5	568	17 932	426	859	13 289	57 758	32 347	87 646	1 526
333	Machinery mfg	-	18	10	1 800	61 116	1 511	3 034	46 688	210 226	197 547	406 602	8 275
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
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
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
339	Miscellaneous mfg	-	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
WASHINGTON COUNTY, TN													
31-33	Manufacturing	-	151	69	10 370	257 551	8 085	15 822	174 814	546 112	750 653	1 300 906	D
311	Food mfg	-	7	5	f	D	D	D	D	D	D	D	D
313	Textile mills	-	5	4	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	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
321	Wood product mfg	-	10	5	545	13 696	477	989	9 262	25 505	64 575	88 602	3 338
323	Printing & related support activities	-	18	7	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	18	7	f	D	D	D	D	D	D	D	D
32311	Printing	-	15	7	f	D	D	D	D	D	D	D	D
323117	Book printing	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	21	9	686	17 676	557	1 073	12 537	30 413	25 450	55 174	D
333	Machinery mfg	-	16	5	1 466	39 481	1 182	2 414	29 074	83 293	53 395	133 261	4 476
334	Computer & electronic product mfg	-	6	3	566	16 486	379	731	9 066	41 820	42 694	87 010	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
335228	Other major household appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WASHINGTON COUNTY, TN—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	12	6	881	16 930	790	1 439	13 690	37 616	26 487	63 990	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	6	3	717	13 242	656	1 240	11 504	28 738	20 471	49 144	D
337122	Nonupholstered wood household furniture mfg	-	3	2	f	D	D	D	D	D	D	D	D
WAYNE COUNTY, TN													
31-33	Manufacturing	2	28	11	1 487	23 043	1 224	2 143	17 842	50 681	49 516	99 594	4 457
315	Apparel mfg	-	4	3	f	D	D	D	D	D	D	D	D
WEAKLEY COUNTY, TN													
31-33	Manufacturing	-	45	24	3 287	74 911	2 781	5 805	54 572	213 691	361 256	574 004	9 944
315	Apparel mfg	-	4	4	656	9 194	599	1 232	7 422	11 751	130 215	139 187	1 199
3152	Cut & sew apparel mfg	-	4	4	656	9 194	599	1 232	7 422	11 751	130 215	139 187	1 199
323	Printing & related support activities.....	-	6	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	6	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	6	2	f	D	D	D	D	D	D	D	D
323117	Book printing.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	4	f	D	D	D	D	D	D	D	1 625
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
WHITE COUNTY, TN													
31-33	Manufacturing	-	49	19	3 442	80 955	2 963	5 920	63 281	254 465	198 667	457 276	17 599
315	Apparel mfg	-	7	4	666	11 294	545	972	8 110	8 612	17 347	37 271	D
3152	Cut & sew apparel mfg	-	6	4	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
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
334512	Automatic environmental control mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3351	Electric lighting equipment 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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WILLIAMSON COUNTY, TN													
31-33	Manufacturing	-	115	37	4 723	130 701	3 581	6 993	73 897	373 716	473 715	846 633	31 089
322	Paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	10	4	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	4	4	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	2	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
WILSON COUNTY, TN													
31-33	Manufacturing	-	114	40	5 533	161 121	3 989	8 064	104 708	360 616	773 064	1 122 914	33 175
332	Fabricated metal product mfg	-	21	9	1 215	30 722	772	1 555	18 628	66 635	79 794	144 228	4 472
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
336	Transportation equipment mfg	-	6	4	767	33 606	583	1 330	24 943	28 450	94 457	122 982	D
3363	Motor vehicle parts mfg ...	-	4	3	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
339	Miscellaneous mfg	-	10	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	6	2	f	D	D	D	D	D	D	D	D
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

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

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

Table 4. Industry Statistics for Places: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ALCOA, TN													
31-33	Manufacturing	-	23	8	g	D	D	D	D	D	D	D	24 448
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	2	2	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	2	2	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	g	D	D	D	D	D	D	D	D
ASHLAND CITY, TN													
31-33	Manufacturing	1	19	7	f	D	D	D	D	D	D	D	D
ATHENS, TN													
31-33	Manufacturing	3	33	22	5 601	146 671	4 018	8 189	95 110	303 516	436 105	741 774	26 291
311	Food mfg	9	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	9	1	1	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	9	1	1	g	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	9	1	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	1	2	2	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	-	1	1	f	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	2	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	2	2	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
BARTLETT, TN													
31-33	Manufacturing	-	31	9	1 327	29 542	1 088	2 064	20 710	59 149	179 548	242 766	8 706
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
BOLIVAR, TN													
31-33	Manufacturing	1	8	4	739	14 557	658	1 082	11 186	21 561	31 153	52 823	384
BRISTOL, TN													
31-33	Manufacturing	1	59	20	1 987	46 427	1 486	2 729	26 900	89 082	97 743	190 166	10 607

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 ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
BROWNSVILLE, TN													
31-33	Manufacturing	-	21	11	g	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	-	2	2	g	D	D	D	D	D	D	D	
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	
32622	Rubber & plastics hoses & belting mfg	-	1	1	f	D	D	D	D	D	D	D	
326220	Rubber & plastics hoses & belting mfg..	-	1	1	f	D	D	D	D	D	D	D	
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	
3331	Agriculture, construction, & mining machinery mfg.	-	1	1	f	D	D	D	D	D	D	D	
33311	Agricultural implement mfg	-	1	1	f	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	
CAMDEN, TN													
31-33	Manufacturing	-	10	6	964	19 087	847	1 397	14 715	43 669	42 554	81 362	3 369
CENTERVILLE, TN													
31-33	Manufacturing	-	11	6	f	D	D	D	D	D	D	2 439	
CHATTANOOGA, TN *													
31-33	Manufacturing	-	389	165	23 272	739 894	17 293	35 640	470 864	1 844 947	2 241 101	4 091 403	153 721
311	Food mfg	-	24	16	h	D	D	D	D	D	D	D	
3113	Sugar & confectionery product mfg	-	1	1	f	D	D	D	D	D	D	D	
31134	Nonchocolate confectionery mfg	-	1	1	f	D	D	D	D	D	D	D	
311340	Nonchocolate confectionery mfg ...	-	1	1	f	D	D	D	D	D	D	D	
3116	Meat product mfg	-	4	3	g	D	D	D	D	D	D	D	
31161	Animal slaughtering & processing	-	4	3	g	D	D	D	D	D	D	D	
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	-	11	5	f	D	D	D	D	D	D	D	
313	Textile mills	1	12	5	g	D	D	D	D	D	D	D	
3131	Fiber, yarn, & thread mills .	-	3	1	f	D	D	D	D	D	D	D	
31311	Fiber, yarn, & thread mills	-	3	1	f	D	D	D	D	D	D	D	
313111	Yarn spinning mills ...	-	2	1	f	D	D	D	D	D	D	D	
3133	Textile & fabric finishing & fabric coating mills	3	5	3	f	D	D	D	D	D	D	D	
31331	Textile & fabric finishing mills	3	4	3	f	D	D	D	D	D	D	D	
313312	Textile & fabric finishing mills	3	2	2	f	D	D	D	D	D	D	D	
322	Paper mfg	-	15	11	g	D	D	D	D	D	D	D	
3222	Converted paper product mfg	-	11	7	f	D	D	D	D	D	D	D	
32221	Paperboard container mfg	-	8	6	f	D	D	D	D	D	D	D	
323	Printing & related support activities	5	57	17	g	D	D	D	D	D	D	14 625	
3231	Printing & related support activities	5	57	17	g	D	D	D	D	D	D	14 625	
32311	Printing	5	49	16	g	D	D	D	D	D	D	D	
323110	Commercial lithographic printing ..	6	22	8	g	D	D	D	D	D	D	D	
323113	Commercial screen printing	-	15	7	f	D	D	D	D	D	D	D	
325	Chemical mfg	-	32	17	h	D	D	D	D	D	D	D	
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	5	5	g	D	D	D	D	D	D	D	
32522	Artificial & synthetic fibers & filaments mfg ..	-	2	2	g	D	D	D	D	D	D	D	
325222	Noncellulosic organic fiber mfg	-	2	2	g	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	-	22	9	624	17 085	518	1 007	11 512	55 534	60 414	115 169	D
3261	Plastics product mfg	-	17	8	f	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg	-	17	7	f	D	D	D	D	D	D	D	
3271	Clay product & refractory mfg	-	2	2	f	D	D	D	D	D	D	D	

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CHATTANOOGA, TN * —Con.												
31-33	Manufacturing— Con.												
331	Primary metal mfg	—	11	7	h	D	D	D	D	D	D	D	D
3315	Foundries	—	8	6	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	6	5	h	D	D	D	D	D	D	D	D
331511	Iron foundries	—	5	4	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	74	29	2 484	76 764	1 915	3 806	49 819	182 661	122 995	306 809	9 386
3329	Other fabricated metal product mfg	—	11	5	953	30 074	725	1 446	20 631	86 273	48 631	136 328	D
33291	Metal valve mfg	—	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	27	13	2 198	85 982	1 510	3 247	50 862	276 077	378 970	653 975	D
3331	Agriculture, construction, & mining machinery mfg	—	4	3	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	4	3	g	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	4	3	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	13	5	f	D	D	D	D	D	D	D	D
	CHURCH HILL, TN												
31-33	Manufacturing	—	6	3	2 045	63 051	1 795	3 748	52 663	188 136	125 744	307 900	9 813
323	Printing & related support activities	—	1	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	—	1	1	f	D	D	D	D	D	D	D	D
32311	Printing	—	1	1	f	D	D	D	D	D	D	D	D
323117	Book printing	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	1	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	—	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	1	1	f	D	D	D	D	D	D	D	D
327211	Flat glass mfg	—	1	1	f	D	D	D	D	D	D	D	D
	CLARKSVILLE, TN												
31-33	Manufacturing	—	70	27	6 047	169 547	5 104	10 113	125 658	688 667	499 928	1 190 675	D
323	Printing & related support activities	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
3231	Printing & related support activities	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
32311	Printing	—	14	3	1 659	42 542	1 485	2 956	33 841	100 160	47 466	146 197	6 274
323110	Commercial lithographic printing	—	2	1	f	D	D	D	D	D	D	D	D
323117	Book printing	—	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	6	4	540	14 678	472	1 084	11 904	31 718	27 883	58 201	D
333	Machinery mfg	—	2	2	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CLEVELAND, TN													
31-33	Manufacturing	-	122	49	11 978	321 979	10 174	19 988	232 115	1 440 780	1 188 464	2 618 466	D
311	Food mfg	-	9	3	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
31133	Confectionery mfg from purchased chocolate...	-	1	1	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	8	5	g	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	3	2	f	D	D	D	D	D	D	D	D
31511	Hosiery & sock mills	-	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
3152	Cut & sew apparel mfg	-	4	3	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	3	3	g	D	D	D	D	D	D	D	1 376
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	-	1	1	f	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	5	4	3 691	118 658	3 108	6 342	86 065	409 266	388 418	795 401	D
3352	Household appliance mfg ..	-	3	2	h	D	D	D	D	D	D	D	D
33522	Major appliance mfg	-	3	2	h	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	-	2	2	h	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33591	Battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	24	7	g	D	D	D	D	D	D	D	765
3371	Household & institutional furniture & kitchen cabinet mfg	-	18	6	g	D	D	D	D	D	D	D	667
33712	Household & institutional furniture mfg	-	14	6	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	12	5	g	D	D	D	D	D	D	D	644
339	Miscellaneous mfg	-	10	3	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	3	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	3	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
CLINTON, TN													
31-33	Manufacturing	-	20	9	1 660	49 904	1 393	2 736	37 385	126 785	129 636	253 042	10 564
326	Plastics & rubber products mfg	-	2	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32621	Tire mfg	-	1	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D
COLLEGEDALE, TN													
31-33	Manufacturing	-	6	4	i	D	D	D	D	D	D	D	D
311	Food mfg	-	2	2	i	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	1	1	i	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	1	1	i	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	1	1	i	D	D	D	D	D	D	D	D
COLLIERVILLE, TN													
31-33	Manufacturing	-	40	20	3 281	89 913	2 557	5 271	62 540	188 553	595 986	809 860	11 641
333	Machinery mfg	-	10	6	g	D	D	D	D	D	D	D	5 787
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	2	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	3	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

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
COLUMBIA, TN														
31-33	Manufacturing	2	42	15	g	D	D	D	D	D	D	D		
326	Plastics & rubber products mfg	5	6	3	f	D	D	D	D	D	D	D		
3261	Plastics product mfg	6	5	3	f	D	D	D	D	D	D	D		
COOKEVILLE, TN														
31-33	Manufacturing	-	101	44	7 478	176 124	5 747	10 642	111 575	605 190	828 956	1 430 173	28 504	
311	Food mfg	-	3	1	g	D	D	D	D	D	D	D		
3113	Sugar & confectionery product mfg	-	1	1	g	D	D	D	D	D	D	D		
31133	Confectionery mfg from purchased chocolate ...	-	1	1	g	D	D	D	D	D	D	D		
311330	Confectionery mfg from purchased chocolate	-	1	1	g	D	D	D	D	D	D	D		
315	Apparel mfg	-	4	2	f	D	D	D	D	D	D	D		
3152	Cut & sew apparel mfg	-	4	2	f	D	D	D	D	D	D	D		
332	Fabricated metal product mfg	-	17	5		615	17 188	408	795	9 465	47 066	64 093	109 519	2 421
333	Machinery mfg	2	13	6	f	D	D	D	D	D	D	D	3 656	
336	Transportation equipment mfg	-	6	5	g	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	6	5	g	D	D	D	D	D	D	D	D	
33639	Other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D	
336399	All other motor vehicle parts mfg	-	2	2	g	D	D	D	D	D	D	D	D	
339	Miscellaneous mfg	1	12	5	f	D	D	D	D	D	D	D	D	
3399	Other miscellaneous mfg ..	-	9	5		811	16 980	498	895	9 838	47 541	25 943	73 343	D
COVINGTON, TN														
31-33	Manufacturing	-	23	17	h	D	D	D	D	D	D	D	D	
323	Printing & related support activities.....	-	3	2	f	D	D	D	D	D	D	D	D	
3231	Printing & related support activities.....	-	3	2	f	D	D	D	D	D	D	D	D	
32311	Printing	-	3	2	f	D	D	D	D	D	D	D	D	
323110	Commercial lithographic printing ..	-	2	1	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	-	3	3	f	D	D	D	D	D	D	D	D	
3329	Other fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D	
CROSSVILLE, TN														
31-33	Manufacturing	-	34	18	2 303	56 093	1 884	3 451	39 493	222 014	200 691	425 616	7 834	
DAYTON, TN														
31-33	Manufacturing	-	23	11	4 436	102 116	3 887	8 158	83 501	225 987	191 439	417 995	5 081	
315	Apparel mfg	-	4	4	g	D	D	D	D	D	D	D	D	
3152	Cut & sew apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D	
31522	Men's & boys' cut & sew apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D	
315221	Men's & boys' cut & sew underwear & nightwear mfg	-	1	1	g	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	-	6	1	g	D	D	D	D	D	D	D	D	
3371	Household & institutional furniture & kitchen cabinet mfg	-	6	1	g	D	D	D	D	D	D	D	D	
33712	Household & institutional furniture mfg	-	3	1	g	D	D	D	D	D	D	D	D	
337121	Upholstered household furniture mfg	-	2	1	g	D	D	D	D	D	D	D	D	

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DICKSON, TN													
31-33	Manufacturing	-	26	13	2 839	80 729	2 547	4 552	64 292	298 719	255 210	549 457	30 143
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	1	1	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
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
337215	Showcase, partition, shelving, & locker mfg	-	1	1	f	D	D	D	D	D	D	D	D
DUNLAP, TN													
31-33	Manufacturing	-	8	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	1	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
DYERSBURG, TN													
31-33	Manufacturing	-	29	12	4 779	147 768	3 821	8 129	97 765	338 169	402 398	743 476	44 827
313	Textile mills	-	2	1	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
31324	Knit fabric mills	-	1	1	g	D	D	D	D	D	D	D	D
313241	Wett knit fabric mills ..	-	1	1	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	2	1	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	2	1	g	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	3	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	5	2	f	D	D	D	D	D	D	D	D
ELIZABETHTON, TN													
31-33	Manufacturing	-	26	11	1 493	41 032	1 184	2 149	28 723	118 140	105 395	227 454	D
ERWIN, TN													
31-33	Manufacturing	-	17	8	f	D	D	D	D	D	D	D	D
FAYETTEVILLE, TN													
31-33	Manufacturing	-	21	10	2 089	57 906	1 597	3 219	38 430	186 788	238 998	422 081	7 871
333	Machinery mfg	-	2	2	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FRANKLIN, TN													
31-33	Manufacturing	-	71	27	3 760	107 258	2 836	5 526	58 069	299 224	404 608	704 157	23 633
322	Paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	5	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	3	626	15 530	507	699	7 791	87 156	52 077	131 248	D
3352	Household appliance mfg..	-	2	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	2	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg...	-	2	2	f	D	D	D	D	D	D	D	D
GALLATIN, TN													
31-33	Manufacturing	-	63	29	4 700	139 663	3 698	7 457	92 410	370 966	458 165	822 746	33 331
323	Printing & related support activities	-	5	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	5	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	5	1	f	D	D	D	D	D	D	D	D
323111	Commercial gravure printing	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	4	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	1	3	3	660	17 853	465	999	8 872	33 629	72 153	97 266	D
32619	Other plastics product mfg	1	3	3	660	17 853	465	999	8 872	33 629	72 153	97 266	D
326199	All other plastics product mfg	1	3	3	660	17 853	465	999	8 872	33 629	72 153	97 266	D
332	Fabricated metal product mfg	-	13	5	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	4	2	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	4	2	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	5	3	f	D	D	D	D	D	D	D	D
GREENEVILLE, TN													
31-33	Manufacturing	-	68	33	5 956	147 570	4 835	9 480	95 800	343 548	584 318	997 006	28 568
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	13	4	626	12 564	534	997	8 745	26 780	22 295	48 898	1 191
3325	Hardware mfg	-	2	2	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	2	2	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	13	8	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	f	D	D	D	D	D	D	D	D
333411	Air purification equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	6	5	662	19 323	488	885	9 417	54 655	32 496	85 717	2 219

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GREENEVILLE, TN—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
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
337	Furniture & related product mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
HARRIMAN, TN *													
31-33	Manufacturing	1	7	3	725	11 689	548	1 174	7 637	35 381	13 541	48 538	D
315	Apparel mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
HENDERSONVILLE, TN													
31-33	Manufacturing	—	62	10	1 917	52 688	1 333	2 020	28 460	78 734	224 441	307 168	9 286
337	Furniture & related product mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
HOHENWALD, TN													
31-33	Manufacturing	—	16	3	566	15 678	459	954	11 985	45 829	52 462	98 367	3 466
HUMBOLDT, TN *													
31-33	Manufacturing	1	22	12	2 749	80 109	2 251	5 214	60 813	204 394	288 862	494 762	12 440
335	Electrical equipment, appliance, & component mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	9	1	1	f	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
339920	Sporting & athletic goods mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
HUNTINGDON, TN													
31-33	Manufacturing	1	8	4	653	18 500	483	990	12 572	66 492	132 263	201 189	4 832

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)				
JACKSON, TN												
31-33	Manufacturing	-	123	63								
311	Food mfg	-	10	7								
3119	Other food mfg	-	1	1								
31191	Snack food mfg	-	1	1								
311919	Other snack food mfg ..	-	1	1								
321	Wood product mfg	1	7	3								
3219	Other wood product mfg...	-	4	1								
32191	Millwork	-	2	1								
321918	Other millwork (including flooring) ...	-	1	1								
322	Paper mfg	-	6	6								
3222	Converted paper product mfg	-	6	6								
327	Nonmetallic mineral product mfg	-	7	5								
331	Primary metal mfg	-	5	5	943	36 975	729	1 550	25 552	141 422	287 856	424 701
3313	Alumina & aluminum production & processing ..	-	2	2								
33131	Alumina & aluminum production & processing.....	-	2	2								
332	Fabricated metal product mfg	-	23	9								10 384
333	Machinery mfg	-	7	4								
3331	Agriculture, construction, & mining machinery mfg.	-	1	1								
33311	Agricultural implement mfg	-	1	1								
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1								
3339	Other general-purpose machinery mfg	-	3	2								
33391	Pump & compressor mfg	-	2	2								
333912	Air & gas compressor mfg	-	2	2								
335	Electrical equipment, appliance, & component mfg	-	3	2								
3352	Household appliance mfg.	-	1	1								
33522	Major appliance mfg.	-	1	1								
335228	Other major household appliance mfg	-	1	1								
336	Transportation equipment mfg	-	6	4	1 058	31 986	734	1 744	18 538	106 460	137 232	239 088
3363	Motor vehicle parts mfg ...	-	5	3								
JEFFERSON CITY, TN												
31-33	Manufacturing	1	15	8	1 250	22 279	939	1 523	14 906	51 827	51 447	102 217
JOHNSON CITY, TN *												
31-33	Manufacturing	-	101	58	8 801	211 458	7 022	13 775	146 079	444 653	625 667	1 074 052
313	Textile mills	-	4	3								
3132	Fabric mills	-	1	1								
31321	Broadwoven fabric mills ..	-	1	1								
313210	Broadwoven fabric mills	-	1	1								
323	Printing & related support activities.....	-	14	7								
3231	Printing & related support activities.....	-	14	7								
32311	Printing	-	12	7								
323117	Book printing.....	-	3	3								
332	Fabricated metal product mfg	-	13	8								
333	Machinery mfg	-	10	4								
334	Computer & electronic product mfg	-	5	3								

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	JOHNSON CITY, TN *—Con.													
31-33	Manufacturing—Con.													
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	
335228	Other major household appliance mfg	-	1	1	g	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg	-	3	2	f	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	-	7	6	f	D	D	D	D	D	D	D	D	
3371	Household & institutional furniture & kitchen cabinet mfg	-	4	4	f	D	D	D	D	D	D	D	D	
33712	Household & institutional furniture mfg	-	3	3	f	D	D	D	D	D	D	D	D	
337122	Nonupholstered wood household furniture mfg	-	2	2	f	D	D	D	D	D	D	D	D	
	KINGSPORT, TN *													
31-33	Manufacturing	-	61	17	j	D	D	D	D	D	D	D	293 291	
313	Textile mills	-	2	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	
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D	
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D	
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D	
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D	
323	Printing & related support activities.....	-	16	3	g	D	D	D	D	D	D	D	D	
3231	Printing & related support activities	-	16	3	g	D	D	D	D	D	D	D	D	
32311	Printing	-	15	3	g	D	D	D	D	D	D	D	D	
323117	Book printing.....	-	2	2	g	D	D	D	D	D	D	D	D	
325	Chemical mfg	-	6	2	j	D	D	D	D	D	D	D	D	
3251	Basic chemical mfg	-	4	1	j	D	D	D	D	D	D	D	D	
32519	Other basic organic chemical mfg	-	1	1	j	D	D	D	D	D	D	D	D	
325199	All other basic organic chemical mfg	-	1	1	j	D	D	D	D	D	D	D	D	
3259	Other chemical product mfg	-	2	1	f	D	D	D	D	D	D	D	D	
32592	Explosives mfg	-	1	1	f	D	D	D	D	D	D	D	D	
325920	Explosives 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	
	KNOXVILLE, TN													
31-33	Manufacturing	1	318	110		14 827	394 454	11 352	22 240	253 724	1 060 551	1 348 860	2 429 886	77 686
311	Food mfg	-	19	13		1 689	37 772	941	1 839	17 201	129 935	103 270	232 623	D
3118	Bakeries & tortilla mfg	-	7	6		896	19 826	327	623	6 019	49 162	17 924	67 061	D
31181	Bread & bakery product mfg	-	7	6		896	19 826	327	623	6 019	49 162	17 924	67 061	D
311812	Commercial bakeries	-	5	5	f	D	D	D	D	D	D	D	D	D
315	Apparel mfg	1	11	7	h	D	D	D	D	D	D	D	D	1 162
3152	Cut & sew apparel mfg	1	8	6	h	D	D	D	D	D	D	D	D	1 162
31522	Men's & boys' cut & sew apparel mfg	4	5	5	g	D	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	9	3	3	f	D	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	g	D	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	69	15		1 283	35 956	983	1 988	23 987	69 093	91 345	158 862	6 567
3231	Printing & related support activities.....	2	69	15		1 283	35 956	983	1 988	23 987	69 093	91 345	158 862	6 567
32311	Printing	2	63	14	g	D	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
KNOXVILLE, TN—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	14	7	544	15 962	441	882	11 296	49 872	37 771	86 253	4 797
332	Fabricated metal product mfg	—	52	20	1 646	46 304	1 358	2 494	32 582	104 350	111 318	215 415	5 390
3323	Architectural & structural metals mfg	—	20	9	665	19 249	522	894	11 561	28 230	39 468	67 253	D
33231	Plate work & fabricated structural product mfg ..	—	13	7	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	—	11	6	f	D	D	D	D	D	D	D	446
334	Computer & electronic product mfg	—	13	2	665	24 590	419	812	9 786	31 504	78 003	111 947	D
3343	Audio & video equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	5	12	6	1 620	48 552	1 237	2 521	30 330	67 946	215 856	287 830	15 699
3363	Motor vehicle parts mfg ...	6	9	5	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	32	5	1 380	34 839	968	1 905	18 753	82 867	47 051	139 806	D
3399	Other miscellaneous mfg ..	—	16	3	g	D	D	D	D	D	D	D	D
33995	Sign mfg	—	11	2	f	D	D	D	D	D	D	D	D
339950	Sign mfg	—	11	2	f	D	D	D	D	D	D	D	D
LAFAYETTE, TN													
31-33	Manufacturing	—	17	8	942	18 698	826	1 462	14 689	16 319	35 762	53 356	3 762
LA VERGNE, TN													
31-33	Manufacturing	—	51	22	h	D	D	D	D	D	D	D	39 424
326	Plastics & rubber products mfg	—	7	3	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	3	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg	—	2	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	g	D	D	D	D	D	D	D	D
LAWRENCEBURG, TN													
31-33	Manufacturing	—	25	12	4 578	129 249	4 123	8 465	109 678	339 631	619 955	957 201	18 956
327	Nonmetallic mineral product mfg	—	3	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	—	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	1	1	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	2	1	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	—	1	1	h	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	—	1	1	h	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	1	1	h	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LEBANON, TN													
31-33	Manufacturing	-	64	28	4 588	134 198	3 321	6 723	88 756	318 155	700 852	1 008 500	29 931
332	Fabricated metal product mfg	-	11	6	945	21 459	564	1 130	12 375	62 227	50 897	111 102	D
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
336	Transportation equipment mfg	-	3	3	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
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
339	Miscellaneous mfg	-	7	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg . .	-	4	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg	-	1	1	f	D	D	D	D	D	D	D	D
LENOIR CITY, TN													
31-33	Manufacturing	-	17	8	906	25 199	730	1 461	18 207	87 692	53 331	139 184	13 622
LEWISBURG, TN													
31-33	Manufacturing	-	40	26	i	D	D	D	D	D	D	D	49 344
325	Chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg . .	-	1	1	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg . . .	-	1	1	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg . .	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	3	h	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	2	2	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	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
339	Miscellaneous mfg	-	5	5	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg . .	-	5	5	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	3	3	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	-	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
LEXINGTON, TN													
31-33	Manufacturing	-	27	15	3 916	94 463	3 209	6 813	73 220	243 646	441 591	690 055	D
332	Fabricated metal product mfg	-	8	5	g	D	D	D	D	D	D	D	D
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	g	D	D	D	D	D	D	D	D
LIVINGSTON, TN													
31-33	Manufacturing	1	22	11	1 187	22 904	1 010	1 854	17 042	47 071	76 379	123 693	D
LOUDON, TN													
31-33	Manufacturing	-	16	10	1 891	58 283	1 611	3 758	45 817	346 171	268 234	613 271	13 372
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
MCKENZIE, TN *													
31-33	Manufacturing	1	15	10	1 635	33 519	1 401	2 734	26 645	86 650	88 021	172 656	3 706
332	Fabricated metal product mfg	-	5	3	619	12 469	515	1 014	9 485	42 090	17 785	60 872	D
MCMINNVILLE, TN													
31-33	Manufacturing	-	29	16	3 456	90 612	2 856	5 659	71 158	218 274	179 170	395 490	13 318
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	2	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
MANCHESTER, TN													
31-33	Manufacturing	-	15	10	g	D	D	D	D	D	D	D	D
MARTIN, TN													
31-33	Manufacturing	-	9	4	g	D	D	D	D	D	D	D	2 810
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARYVILLE, TN													
31-33	Manufacturing	-	32	9	2 857	98 961	2 210	4 719	71 554	523 202	379 614	897 325	26 302
326	Plastics & rubber products mfg	-	3	3	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
MEMPHIS, TN													
31-33	Manufacturing	-	688	271	32 938	1 104 769	22 128	43 870	618 176	3 593 510	5 240 104	8 888 525	343 594
311	Food mfg	1	42	22	3 765	141 220	2 327	4 775	85 611	541 157	871 158	1 413 973	D
3112	Grain & oilseed milling	-	4	4	g	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg	-	3	3	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	14	5	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	13	5	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	6	5	1 461	49 244	655	1 193	21 472	119 305	53 765	172 981	D
321	Wood product mfg	3	31	13	951	21 169	826	1 645	16 446	41 085	47 770	90 280	2 456
3219	Other wood product mfg	3	24	11	f	D	D	D	D	D	D	D	D
32191	Millwork	3	11	7	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	3	7	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	23	19	3 343	114 162	2 426	5 256	68 110	259 903	316 823	576 554	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
322121	Paper (except newsprint) mills	-	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	19	15	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	12	9	g	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	7	5	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	4	4	g	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	128	32	2 786	90 161	2 080	3 925	57 007	188 697	126 227	313 935	13 342
3231	Printing & related support activities	2	128	32	2 786	90 161	2 080	3 925	57 007	188 697	126 227	313 935	13 342
32311	Printing	2	106	26	2 449	77 237	1 825	3 401	49 997	167 235	121 076	287 264	D
323110	Commercial lithographic printing	2	54	17	1 362	41 861	1 039	1 839	27 030	84 637	53 690	137 291	7 112
324	Petroleum & coal products mfg	-	10	3	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	10	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	1	58	30	5 473	197 583	2 827	5 287	79 829	1 025 876	610 009	1 636 508	117 970
3251	Basic chemical mfg	-	8	5	g	D	D	D	D	D	D	D	86 265
32519	Other basic organic chemical mfg	-	6	4	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
3254	Pharmaceutical & medicine mfg	1	7	4	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	1	7	4	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	1	4	3	g	D	D	D	D	D	D	D	14 448
3255	Paint, coating, & adhesive mfg	1	12	8	723	24 746	382	758	9 447	75 585	173 206	250 999	5 448
32551	Paint & coating mfg	2	7	6	f	D	D	D	D	D	D	D	4 943
325510	Paint & coating mfg	2	7	6	f	D	D	D	D	D	D	D	4 943
3256	Soap, cleaning compound, & toilet preparation mfg	3	13	7	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	4	10	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	18	10	759	24 404	581	1 312	17 157	69 436	86 237	158 086	2 444
3261	Plastics product mfg	-	13	9	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MEMPHIS, TN—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	3	29	12	735	22 305	495	927	12 481	51 876	54 983	106 517	4 777
3273	Cement & concrete product mfg	4	12	9	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	111	47	3 325	99 138	2 571	5 600	65 268	208 652	255 764	462 802	9 394
3323	Architectural & structural metals mfg	—	36	21	1 502	39 214	1 090	2 279	23 306	82 141	99 170	182 288	2 798
33232	Ornamental & architectural metal products mfg	—	23	13	1 095	26 933	803	1 592	15 914	54 245	61 834	116 824	2 017
332322	Sheet metal work mfg	—	12	7	595	15 926	470	923	10 624	35 100	35 755	71 619	1 154
333	Machinery mfg	—	32	13	1 802	67 773	1 334	2 831	40 691	150 775	220 733	370 545	4 672
3339	Other general-purpose machinery mfg	—	18	8	1 064	44 060	752	1 736	24 974	76 866	185 299	261 369	3 161
33392	Material handling equipment mfg	—	9	6	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	18	8	2 220	71 674	1 580	3 141	42 104	172 609	528 616	704 792	20 158
3343	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	2	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	15	8	1 338	39 146	681	1 561	22 285	145 957	129 783	270 355	D
3352	Household appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	—	1	1	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	17	7	677	18 327	507	860	9 458	59 261	48 692	100 983	D
337	Furniture & related product mfg	1	47	15	955	21 866	747	1 413	14 666	51 399	46 288	97 636	952
339	Miscellaneous mfg	—	64	13	3 004	115 615	1 830	2 699	49 717	341 196	164 597	565 076	25 871
3391	Medical equipment & supplies mfg	—	32	6	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	32	6	g	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	—	4	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	5	32	7	f	D	D	D	D	D	D	D	D
	MILAN, TN												
31-33	Manufacturing	2	20	9	1 674	42 563	1 250	2 423	31 629	147 289	120 473	268 721	8 528
332	Fabricated metal product mfg	—	2	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	1	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	1	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	—	1	1	f	D	D	D	D	D	D	D	D
	MONTEREY, TN												
31-33	Manufacturing	—	4	3	g	D	D	D	D	D	D	D	D
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

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MORRISTOWN, TN *													
31-33	Manufacturing	1	92	60	13 343	334 744	11 111	21 511	244 117	896 655	969 995	1 855 707	94 351
311	Food mfg	9	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	10	7	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	6	6	766	21 756	490	921	12 445	62 515	87 357	144 556	5 800
3222	Converted paper product mfg	—	6	6	766	21 756	490	921	12 445	62 515	87 357	144 556	5 800
326	Plastics & rubber products mfg	4	10	10	766	19 813	661	1 472	14 135	48 470	60 362	104 840	6 346
3261	Plastics product mfg	4	10	10	766	19 813	661	1 472	14 135	48 470	60 362	104 840	6 346
332	Fabricated metal product mfg	—	11	6	855	25 625	749	1 408	20 011	64 707	34 336	96 622	D
333	Machinery mfg	—	7	4	702	22 781	477	749	10 869	43 300	93 259	137 982	11 162
336	Transportation equipment mfg	—	3	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	3	3	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, & valve mfg	—	1	1	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	—	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	15	9	5 070	106 806	4 558	9 109	83 436	246 311	269 507	513 083	13 770
3371	Household & institutional furniture & kitchen cabinet mfg	—	11	8	i	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	—	8	6	h	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	—	3	1	h	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	—	4	4	g	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	8	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
MOUNT JULIET, TN													
31-33	Manufacturing	1	30	8	769	22 580	527	1 080	13 465	33 672	64 827	98 238	2 505
MOUNT PLEASANT, TN													
31-33	Manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
MURFREESBORO, TN													
31-33	Manufacturing	—	87	37	5 660	170 762	4 359	8 943	117 465	661 302	755 816	1 415 486	D
311	Food mfg	—	6	5	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	4	3	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	—	2	2	g	D	D	D	D	D	D	D	D
311822	Flour mixes & dough mfg from purchased flour	—	2	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	8	6	1 110	33 504	884	1 625	22 277	84 448	201 263	288 167	D
3363	Motor vehicle parts mfg ...	—	7	5	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	6	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	—	4	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	—	1	1	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg	—	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	NASHVILLE-DAVIDSON, TN (CC) *												
31-33	Manufacturing	1	752	261	31 716	1 099 974	23 000	46 213	688 576	3 419 602	3 334 852	6 721 810	213 969
311	Food mfg	3	49	18	2 557	73 202	1 500	2 958	37 033	238 686	487 756	721 652	D
3115	Dairy product mfg	3	3	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	3	3	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	4	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
31161	Animal slaughtering & processing	-	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
3118	Bakeries & tortilla mfg	4	16	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	8	8	5	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	7	5	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	4	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	4	5	3	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	4	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	-	7	7	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	2	2	g	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	-	2	2	g	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	-	2	2	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	29	8	1 408	30 590	1 108	2 041	20 384	98 518	71 423	172 405	D
3141	Textile furnishings mills	-	12	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	10	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	2	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	-	17	6	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	12	4	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	-	11	4	626	11 727	453	663	7 270	22 904	30 523	55 008	D
321	Wood product mfg	-	17	6	756	17 071	658	1 278	13 555	83 438	145 551	228 806	D
3219	Other wood product mfg	-	15	6	f	D	D	D	D	D	D	D	D
32191	Millwork	-	7	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D
3222	Converted paper product mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D
323	Printing & related support activities	2	185	60	5 181	178 380	3 954	8 106	113 644	319 033	194 667	513 332	22 826
3231	Printing & related support activities	2	185	60	5 181	178 380	3 954	8 106	113 644	319 033	194 667	513 332	22 826
32311	Printing	1	142	44	3 628	120 993	2 749	5 496	74 035	218 115	157 675	375 832	16 722
323110	Commercial lithographic printing	1	70	29	2 457	88 177	1 919	3 768	54 916	154 490	113 144	267 071	10 334
32312	Support activities for printing	4	43	16	1 553	57 387	1 205	2 610	39 609	100 918	36 992	137 500	6 104
323121	Tradebinding & related work	6	14	4	f	D	D	D	D	D	D	D	D
323122	Prepress services	2	29	12	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	31	8	817	29 046	539	1 046	18 227	126 171	167 652	296 614	D
326	Plastics & rubber products mfg	1	32	15	1 390	35 200	997	1 741	19 328	136 413	151 369	286 485	D
3261	Plastics product mfg	-	27	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	16	9	637	13 978	535	911	9 625	36 776	34 297	71 273	D
326199	All other plastics product mfg	2	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	32	12	2 285	130 790	1 932	4 502	108 035	276 186	184 859	461 526	19 603
3272	Glass & glass product mfg	-	7	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	7	3	g	D	D	D	D	D	D	D	D
327211	Flat glass mfg	-	1	1	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	19	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	93	35	3 715	106 955	2 884	5 714	71 227	229 362	202 242	427 281	15 133
3323	Architectural & structural metals mfg	1	23	6	718	20 929	472	917	10 993	52 285	58 764	110 077	3 407
33232	Ornamental & architectural metal products mfg	1	10	5	551	16 091	364	714	8 590	40 421	39 503	78 867	D
3324	Boiler, tank, & shipping container mfg	-	2	2	g	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	-	1	1	g	D	D	D	D	D	D	D	D
332439	Other metal container mfg	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NASHVILLE-DAVIDSON, TN (CC) * —Con. Manufacturing— Con.												
333	Machinery mfg	1	45	20	1 967	91 656	1 161	2 508	41 847	152 451	142 573	296 553	10 118
3335	Metalworking machinery mfg	—	20	10	1 423	74 064	837	1 856	32 881	119 070	98 176	219 212	8 948
33351	Metalworking machinery mfg	—	20	10	1 423	74 064	837	1 856	32 881	119 070	98 176	219 212	8 948
333518	Other metalworking machinery mfg	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	28	9	f	D	D	D	D	D	D	D	12 650
3346	Mfg & reproducing magnetic & optical media	1	14	5	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	1	14	5	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	1	14	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	22	11	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	—	1	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	50	16	829	20 482	647	1 193	13 106	39 892	44 184	84 665	1 611
339	Miscellaneous mfg	2	71	10	1 309	31 893	1 004	2 036	20 147	69 449	53 042	120 603	D
3399	Other miscellaneous mfg	1	48	8	1 140	27 383	884	1 829	17 334	59 151	47 392	104 504	D
33999	All other miscellaneous mfg	—	15	5	f	D	D	D	D	D	D	D	D
31-33	NASHVILLE-DAVIDSON (BALANCE), TN *												
31-33	Manufacturing	1	721	253	k	D	D	D	D	D	D	D	D
311	Food mfg	3	47	18	h	D	D	D	D	D	D	D	D
3115	Dairy product mfg	3	3	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	3	3	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	4	2	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	—	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
31161	Animal slaughtering & processing	—	10	4	538	14 361	413	617	9 313	47 954	177 847	221 236	2 281
3118	Bakeries & tortilla mfg	4	15	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	8	8	5	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	7	5	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	4	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	4	5	3	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	4	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	—	7	7	g	D	D	D	D	D	D	D	D
3132	Fabric mills	—	2	2	g	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	—	2	2	g	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	—	2	2	g	D	D	D	D	D	D	D	D
314	Textile product mills	—	29	8	1 408	30 590	1 108	2 041	20 384	98 518	71 423	172 405	D
3141	Textile furnishings mills	—	12	2	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	—	10	1	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	—	2	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills	—	17	6	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	—	12	4	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	—	11	4	626	11 727	453	663	7 270	22 904	30 523	55 008	D
321	Wood product mfg	—	16	5	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	—	14	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D
3222	Converted paper product mfg	1	11	8	826	24 067	666	1 501	15 498	72 386	69 400	141 470	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NASHVILLE-DAVIDSON (BALANCE), TN *—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	2	176	58	5 040	174 736	3 860	7 908	111 626	313 942	188 910	502 305	22 696
3231	Printing & related support activities.....	2	176	58	5 040	174 736	3 860	7 908	111 626	313 942	188 910	502 305	22 696
32311	Printing.....	1	135	42	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	69	29	g	D	D	D	D	D	D	D	D
32312	Support activities for printing.....	4	41	16	g	D	D	D	D	D	D	D	D
323121	Tradebinding & related work.....	6	12	4	f	D	D	D	D	D	D	D	2 986
323122	Prepress services.....	2	29	12	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	—	31	8	817	29 046	539	1 046	18 227	126 171	167 652	296 614	D
326	Plastics & rubber products mfg.....	1	32	15	1 390	35 200	997	1 741	19 328	136 413	151 369	286 485	D
3261	Plastics product mfg.....	—	27	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	1	16	9	637	13 978	535	911	9 625	36 776	34 297	71 273	D
326199	All other plastics product mfg.....	2	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	—	32	12	2 285	130 790	1 932	4 502	108 035	276 186	184 859	461 526	19 603
3272	Glass & glass product mfg.....	—	7	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	—	7	3	g	D	D	D	D	D	D	D	D
327211	Flat glass mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg.....	1	19	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	91	35	h	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	1	22	6	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg.....	1	10	5	551	16 091	364	714	8 590	40 421	39 503	78 867	D
3324	Boiler, tank, & shipping container mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
332439	Other metal container mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg.....	1	40	19	g	D	D	D	D	D	D	D	9 881
3335	Metalworking machinery mfg.....	1	17	9	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg.....	1	17	9	g	D	D	D	D	D	D	D	D
333518	Other metalworking machinery mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	3	27	8	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media.....	1	14	5	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.....	1	14	5	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing.....	1	14	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	20	9	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	48	16	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	66	9	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg.....	2	44	7	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg.....	—	13	4	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NEWBERN, TN													
31-33	Manufacturing	-	8	3	f	D	D	D	D	D	D	D	D
NEWPORT, TN													
31-33	Manufacturing	3	18	9	1 718	42 636	1 310	2 685	30 169	94 822	158 691	247 359	11 779
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
OAK RIDGE, TN *													
31-33	Manufacturing	-	59	21	5 669	247 306	2 277	4 654	77 985	774 483	120 530	897 286	10 950
325	Chemical mfg	-	4	1	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	2	1	h	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	1	1	h	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	1	1	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	22	6	567	23 055	366	820	13 861	51 169	16 065	65 998	D
334	Computer & electronic product mfg	-	11	7	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	10	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	10	6	f	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
336413	Other aircraft part & auxiliary equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
ONEIDA, TN													
31-33	Manufacturing	-	15	4	1 247	27 436	1 024	2 142	16 480	75 039	84 095	155 257	5 627
321	Wood product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	-	1	1	f	D	D	D	D	D	D	D	D
PARIS, TN													
31-33	Manufacturing	-	33	12	2 187	51 362	1 758	3 596	34 622	142 382	222 622	369 972	11 774
326	Plastics & rubber products mfg	-	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
PORTLAND, TN													
31-33	Manufacturing	-	38	23	3 573	95 440	2 727	5 359	64 746	240 413	316 869	557 035	8 730
332	Fabricated metal product mfg	-	8	7	1 304	37 273	925	1 966	22 705	105 290	107 847	211 369	D
3323	Architectural & structural metals mfg	-	2	2	f	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	4	975	24 874	842	1 597	21 082	48 631	134 468	184 288	D
3363	Motor vehicle parts mfg ...	-	5	4	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	3	2	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	3	2	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PULASKI, TN													
31-33	Manufacturing	-	30	13	2 513	75 556	2 166	4 347	56 331	299 517	228 795	530 645	11 912
331	Primary metal mfg	-	4	2	505	17 624	401	815	12 871	58 488	66 431	124 833	D
332	Fabricated metal product mfg	-	3	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
RED BANK, TN													
31-33	Manufacturing	-	16	6	541	19 484	383	477	5 436	52 054	24 598	76 143	D
RIPLEY, TN													
31-33	Manufacturing	-	10	8	2 339	47 657	2 174	4 196	39 167	117 722	102 896	217 966	5 951
321	Wood product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	1	1	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
ROCKWOOD, TN													
31-33	Manufacturing	-	10	7	586	17 770	460	885	11 453	63 479	49 586	111 384	7 540
ROGERSVILLE, TN													
31-33	Manufacturing	-	12	5	1 123	42 160	946	2 160	32 856	123 847	98 897	233 672	13 518
332	Fabricated metal product mfg	-	3	1	f	D	D	D	D	D	D	D	D
SAVANNAH, TN													
31-33	Manufacturing	2	20	10	1 047	17 057	878	1 443	12 530	38 634	53 225	90 678	1 723
SELMER, TN													
31-33	Manufacturing	2	17	11	1 053	25 114	890	1 723	19 537	78 676	61 695	139 219	4 544
335	Electrical equipment, appliance, & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
SEVIERVILLE, TN													
31-33	Manufacturing	1	33	7	1 308	35 531	986	1 874	22 700	70 850	58 494	130 259	5 412
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SHELBYVILLE, TN													
31-33	Manufacturing	—	45	19	5 440	143 711	4 583	8 787	110 276	512 056	793 578	1 288 658	D
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
326	Plastics & rubber products mfg	—	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	—	2	2	g	D	D	D	D	D	D	D	D
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
339	Miscellaneous mfg	—	9	6	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	—	9	6	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	—	5	5	1 457	32 060	1 154	1 775	21 757	127 106	44 730	168 769	D
339941	Pen & mechanical pencil mfg	—	1	1	f	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	—	4	4	f	D	D	D	D	D	D	D	D
SMITHVILLE, TN													
31-33	Manufacturing	1	18	13	2 541	61 628	1 924	4 049	36 427	132 657	186 363	318 134	D
336	Transportation equipment mfg	1	4	4	1 400	37 995	969	2 171	20 143	62 810	124 271	189 456	D
3363	Motor vehicle parts mfg	1	4	4	1 400	37 995	969	2 171	20 143	62 810	124 271	189 456	D
33634	Motor vehicle brake system mfg	—	2	2	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	—	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	2	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	2	2	2	f	D	D	D	D	D	D	D	D
SMYRNA, TN													
31-33	Manufacturing	—	21	9	i	D	D	D	D	D	D	D	D
325	Chemical mfg	—	2	2	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg	—	1	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg	—	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	5	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	1	1	i	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	—	1	1	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	1	1	i	D	D	D	D	D	D	D	D
336111	Automobile mfg	—	1	1	i	D	D	D	D	D	D	D	D
SODDY-DAISY, TN													
31-33	Manufacturing	4	19	8	500	11 840	424	764	7 237	40 240	30 404	70 203	894
SOUTH FULTON, TN													
31-33	Manufacturing	—	6	3	631	8 316	542	986	6 284	18 579	38 189	49 207	974
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
SOUTH PITTSBURG, TN													
31-33	Manufacturing	—	8	5	891	20 039	831	1 365	15 879	31 025	46 382	77 163	1 159

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SPARTA, TN													
31-33	Manufacturing	-	19	8	2 006	49 089	1 786	3 600	40 394	122 157	76 493	193 442	10 218
334	Computer & electronic product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
SPRINGFIELD, TN													
31-33	Manufacturing	-	40	25	4 224	106 550	3 294	6 330	69 939	243 246	384 973	619 557	D
335	Electrical equipment, appliance, & component mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	g	D	D	D	D	D	D	D	D
33522	Major appliance mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg.....	-	1	1	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
SWEETWATER, TN *													
31-33	Manufacturing	1	24	10	1 046	27 412	721	1 419	16 104	76 407	70 955	147 810	3 795
TRENTON, TN													
31-33	Manufacturing	-	13	5	658	14 013	571	947	10 841	30 755	29 995	60 387	2 222
TULLAHOMA, TN *													
31-33	Manufacturing	-	35	21	2 457	72 967	1 867	3 615	41 765	202 252	235 543	431 064	10 910
UNION CITY, TN													
31-33	Manufacturing	-	21	10	4 141	165 690	3 524	8 160	135 069	595 958	392 190	975 895	9 689
326	Plastics & rubber products mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
32621	Tire mfg.....	-	1	1	h	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading).....	-	1	1	h	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	-	1	1	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
WINCHESTER, TN													
31-33	Manufacturing	-	22	10	1 461	41 922	1 189	2 625	30 360	127 247	183 341	310 779	7 232
326	Plastics & rubber products mfg.....	-	6	3	725	21 415	533	1 079	13 164	41 163	45 051	86 416	5 949
3262	Rubber product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use.....	-	1	1	f	D	D	D	D	D	D	D	D

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

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

Table 5. Detailed Statistics for the State: 1997

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Value	Item	Value
TENNESSEE		TENNESSEE—Con.	
Companies ¹	number.. 6 728	Quantity of electricity purchased for heat and power	1,000 kWh.. 23 976 156
All establishments	number.. 7 407	Quantity of electricity generated less sold for heat and power	1,000 kWh.. 2 234 003
Establishments with 1 to 19 employees	number.. 4 501	Total value of shipments	\$1,000.. 98 503 080
Establishments with 20 to 99 employees	number.. 1 835	Value of resales	\$1,000.. 3 938 349
Establishments with 100 employees or more	number.. 1 071	Value added	\$1,000.. 44 355 170
All employees	number.. 483 823	Total inventories, beginning of year	\$1,000.. 9 764 787
Total compensation ²	\$1,000.. 18 239 681	Finished goods inventories, beginning of year	\$1,000.. 4 414 259
Annual payroll	\$1,000.. 14 351 915	Work-in-process inventories, beginning of year	\$1,000.. 1 814 197
Total fringe benefits	\$1,000.. 3 887 766	Materials and supplies inventories, beginning of year	\$1,000.. 3 536 331
Production workers, average for year	number.. 375 121	Total inventories, end of year	\$1,000.. 9 992 745
Production workers on March 12	number.. 375 158	Finished goods inventories, end of year	\$1,000.. 4 501 015
Production workers on May 12	number.. 376 859	Work-in-process inventories, end of year	\$1,000.. 1 868 897
Production workers on August 12	number.. 374 260	Materials and supplies inventories, end of year	\$1,000.. 3 622 833
Production workers on November 12	number.. 374 207	Gross book value of total assets at beginning of year	\$1,000.. 41 854 027
Production-worker hours	1,000.. 743 819	Total capital expenditures (new and used)	\$1,000.. 3 871 129
Production-worker wages	\$1,000.. 9 468 824	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 494 703
Total cost of materials	\$1,000.. 54 211 506	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 3 376 426
Cost of materials, parts, containers, etc., consumed	\$1,000.. 48 394 389	Total retirements ²	\$1,000.. 1 098 572
Cost of resales	\$1,000.. 3 131 997	Gross book value of total assets at end of year	\$1,000.. 44 626 584
Cost of fuels	\$1,000.. 629 762	Total depreciation during year ²	\$1,000.. 2 761 486
Cost of purchased electricity	\$1,000.. 1 006 853	Total rental payments ²	\$1,000.. 661 502
Cost of contract work	\$1,000.. 1 048 505	Buildings and other structures rental payments ²	\$1,000.. 260 149
		Machinery and equipment rental payments ²	\$1,000.. 401 353

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

²These items are collected in the ASM and estimated for the remaining establishments.

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

Respondents were asked to report their beginning-of-year and end-of-year inventories at cost or market. Effective with the 1982 Economic Census, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). Beginning in 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Inventory Data by Stage of Fabrication

Total inventories and three detailed components (1) finished goods, (2) work-in-process, and (3) materials, supplies, fuels, etc., were collected.

When using inventory data by stage of fabrication for “all industries” and at the three-digit subsector level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by an establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for all publication levels.

COST OF MATERIALS

This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

Included in this item are:

1. Cost of parts, components, containers, etc.—Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
2. Cost of products bought and sold in the same condition.

3. Cost of fuels consumed for heat and power—Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. Cost of purchased electricity—The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
5. Cost of contract work—This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term “Contract Work” refers to the fee a company pays to another company to perform a service.

Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual

manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

DEPRECIATION CHARGES FOR FIXED ASSETS

This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production Workers

This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All Other Employees

This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria,

medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

FRINGE BENEFITS

Fringe benefits are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

GROSS BOOK VALUE OF DEPRECIABLE ASSETS AT BEGINNING OF YEAR (BOY) AND END OF YEAR (EOY)

Total value of depreciable assets is collected on all census forms. It shows the value of depreciable assets for the beginning of year and end of year. The data encompass all fixed depreciable assets on the books of establishments. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress.

In addition, respondents were requested to make certain that assets at the beginning of the year plus capital expenditures, less retirements, equaled assets at the end of the year.

NUMBER OF ESTABLISHMENTS AND COMPANIES

A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location

where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payrolls of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' social security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' total supplemental labor costs (those required by Federal and state laws and those incurred voluntarily or as part of collective bargaining agreements).

PRODUCTION-WORKER HOURS

This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the

Annual Survey of Manufactures (ASM) form. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

RENTAL PAYMENTS

Total rental payments are collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

RETIREMENTS OF DEPRECIABLE ASSETS

Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during the calendar year. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

For establishments in operation and any known plants under construction, manufacturers were asked to report their new and used expenditures for (1) permanent additions and major alterations to manufacturing establishments and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies and

plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

VALUE ADDED

This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

For those industries where value of production is collected instead of value of shipments, value added is adjusted only for the change in work-in-process inventories between the beginning and end of year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

“Value added” avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of “all other costs” (including company overhead) and profit.

In addition to the value for NAICS defined products, aggregates of the following categories of miscellaneous receipts are reported as part of a total establishment’s value of product shipments:

1. Reported contract work—Receipts for work or services that a plant performed for others on their materials.
2. Value of resales—Sales of products brought and sold without further manufacture, processing, or assembly.
3. Other miscellaneous receipts—Such as repair work, installation, sales of scrap, etc.

Duplication in Cost of Materials and Value of Shipment

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have been published for all industries at the U.S. level and beginning in 1964, for all geographic levels.

Appendix B.

NAICS Codes, Titles, and Descriptions

SECTOR 31-33 MANUFACTURING

The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction.

Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment. However, establishments that transform materials or substances into new products by hand or in the worker's home and those engaged in selling to the general public products made on the same premises from which they are sold, such as bakeries, candy stores, and custom tailors, may also be included in this sector. Manufacturing establishments may process materials or may contract with other establishments to process their materials for them. Both types of establishments are included in manufacturing.

The materials, substances, or components transformed by manufacturing establishments are raw materials that are products of agriculture, forestry, fishing, mining, or quarrying as well as products of other manufacturing establishments. The materials used may be purchased directly from producers, obtained through customary trade channels, or secured without recourse to the market by transferring the product from one establishment to another, under the same ownership.

The new product of a manufacturing establishment may be finished in the sense that it is ready for utilization or consumption, or it may be semifinished to become an input for an establishment engaged in further manufacturing. For example, the product of the alumina refinery is the input used in the primary production of aluminum; primary aluminum is the input to an aluminum wire drawing plant; and aluminum wire is the input for a fabricated wire product manufacturing establishment.

The subsectors in the Manufacturing sector generally reflect distinct production processes related to material inputs, production equipment, and employee skills. In the machinery area, where assembling is a key activity, parts and accessories for manufactured products are classified in the industry of the finished manufactured item when they are made for separate sale. For example, a replacement refrigerator door would be classified with refrigerators and an attachment for a piece of metal working

machinery would be classified with metal working machinery. However, components, input from other manufacturing establishments, are classified based on the production function of the component manufacturer. For example, electronic components are classified in Subsector 334, Computer and Electronic Product Manufacturing and stampings are classified in Subsector 332, Fabricated Metal Product Manufacturing.

Manufacturing establishments often perform one or more activities that are classified outside the Manufacturing sector of NAICS. For instance, almost all manufacturing has some captive research and development or administrative operations, such as accounting, payroll, or management. These captive services are treated the same as captive manufacturing activities. When the services are provided by separate establishments, they are classified to the NAICS sector where such services are primary, not in manufacturing.

The boundaries of manufacturing and the other sectors of the classification system can be somewhat blurry. The establishments in the manufacturing sector are engaged in the transformation of materials into new products. Their output is a new product. However, the definition of what constitutes a new product can be somewhat subjective. As clarification, the following activities are considered manufacturing in NAICS: milk bottling and pasteurizing; water bottling and processing; fresh fish packaging (oyster shucking, fish filleting); apparel jobbing (assigning of materials to contract factories or shops for fabrication or other contract operations) as well as contracting on materials owned by others; printing and related activities; ready-mixed concrete production; leather converting; grinding of lenses to prescription; wood preserving; electroplating, plating, metal heat treating, and polishing for the trade; lapidary work for the trade; fabricating signs and advertising displays; rebuilding or remanufacturing machinery (i.e., automotive parts); ship repair and renovation; machine shops; and tire retreading.

Conversely, there are activities that are sometimes considered manufacturing, but which for NAICS are classified in another sector (i.e., not classified as manufacturing). They include:

1. Logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting, is considered a harvesting operation;
2. The beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining;

3. The construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction;
4. Establishments engaged in breaking of bulk and redistribution in smaller lots, including packaging, repackaging, or bottling products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing paints to customer order; and cutting metals to customer order, classified in Sector 42, Wholesale Trade or Sector 44-45, Retail Trade, produce a modified version of the same product, not a new product; and
5. Publishing and the combined activity of publishing and printing, classified in Sector 51, Information, perform the transformation of information into a product where as the value of the product to the consumer lies in the information content, not in the format in which it is distributed (i.e., the book or software diskette).

311 Food Manufacturing

Industries in the Food Manufacturing subsector transform livestock and agricultural products into products for intermediate or final consumption. The industry groups are distinguished by the raw materials (generally of animal or vegetable origin) processed into food products.

The food products manufactured in these establishments are typically sold to wholesalers or retailers for distribution to consumers, but establishments primarily engaged in retailing bakery and candy products made on the premises not for immediate consumption are included.

Establishments primarily engaged in manufacturing beverages are classified in Subsector 312, Beverage and Tobacco Product Manufacturing.

3111 Animal Food Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31111, Animal Food Manufacturing.

31111 Animal Food Manufacturing

This industry comprises establishments primarily engaged in manufacturing food and feed for animals from ingredients, such as grains, oilseed mill products, and meat products.

311111 Dog and Cat Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dog and cat food from ingredients, such as grains, oilseed mill products, and meat products.

The data published with NAICS code 311111 include the following SIC industry:

2047 Dog and cat food

311119 Other Animal Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing animal food (except dog and cat) from ingredients, such as grains, oilseed mill products, and meat products.

The data published with NAICS code 311119 include the following SIC industry:

2048 Prepared feeds and feed ingredients for animals and fowls, except dogs and cats (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311119 do not include establishments primarily engaged in the custom grinding of grain. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3112 Grain and Oilseed Milling

This NAICS industry group includes establishments classified in the following NAICS Industries: 31121, Flour Milling and Malt Manufacturing; 31122, Starch and Vegetable Fats and Oils Manufacturing; and 31123, Breakfast Cereal Manufacturing.

31121 Flour Milling and Malt Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) milling flour or meal from grains or vegetables; (2) preparing flour mixes or doughs from flour milled in the same establishment; (3) milling, cleaning, and polishing rice; and (4) manufacturing malt from barley, rye, or other grains.

311211 Flour Milling

This U.S. industry comprises establishments primarily engaged in (1) milling flour or meal from grains (except rice) or vegetables and/or (2) milling flour and preparing flour mixes or doughs.

The data published with NAICS code 311211 include the following SIC industries:

2034 Dehydrated fruits, vegetables, and soup mixes (pt)

2041 Flour and other grain mill products

311212 Rice Milling

This U.S. industry comprises establishments primarily engaged in one of the following: (1) milling rice; (2) cleaning and polishing rice; or (3) milling, cleaning, and polishing rice. The establishments in this industry may package the rice they mill with other ingredients.

The data published with NAICS code 311212 include the following SIC industry:

2044 Rice milling

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311212 do not include rice mills primarily engaged in packaging uncooked rice with other ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311213 Malt Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing malt from barley, rye, or other grains.

The data published with NAICS code 311213 include the following SIC industry:

2083 Malt

31122 Starch and Vegetable Fats and Oils Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) wet milling corn and vegetables; (2) crushing oilseeds and tree nuts; (3) refining and/or blending vegetable oils; (4) manufacturing shortening and margarine; and (5) blending purchased animal fats with vegetable fats.

311221 Wet Corn Milling

This U.S. industry comprises establishments primarily engaged in wet milling corn and other vegetables (except to make ethyl alcohol). Examples of products made in these establishments are corn sweeteners, such as glucose, dextrose, and fructose; corn oil; and starches (except laundry).

The data published with NAICS code 311221 include the following SIC industry:

2046 Wet corn milling

311222 Soybean Processing

This U.S. industry comprises establishments engaged in crushing soybeans. Examples of products produced in these establishments are soybean oil, soybean cake and meal, and soybean protein isolates and concentrates.

The data published with NAICS code 311222 include the following SIC industry:

2075 Soybean oil mills (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311222 do not include establishments primarily engaged in the processing of

soybean oil from soybeans crushed in the same establishment. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311223 Other Oilseed Processing

This U.S. industry comprises establishments engaged in crushing oilseeds (except soybeans) and tree nuts, such as cottonseeds, linseeds, peanuts, and sunflower seeds.

The data published with NAICS code 311223 include the following SIC industries:

2074 Cottonseed oil mills (pt)

2076 Vegetable oil mills, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311223 do not include establishments primarily engaged in the processing of vegetable oils, except soybean oil, from oilseeds crushed in the same establishment. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311225 Fats and Oils Refining and Blending

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing shortening and margarine from purchased fats and oils; (2) refining and/or blending vegetable, oilseed, and tree nut oils from purchased oils; and (3) blending purchased animal fats with purchased vegetable fats.

The data published with NAICS code 311225 include the following SIC industries:

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

2076 Vegetable oil mills, n.e.c. (pt)

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311225 do not include establishments primarily engaged in refining and/or blending corn oil from purchased oil. The data include establishments primarily engaged in the manufacture of vegetable oil foots. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31123 Breakfast Cereal Manufacturing

This industry comprises establishments primarily engaged in manufacturing breakfast cereal foods.

311230 Breakfast Cereal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing breakfast cereal foods.

The data published with NAICS code 311230 include the following SIC industry:

2043 Cereal breakfast foods (pt)

3113 Sugar and Confectionery Product Manufacturing

This industry group comprises (1) establishments that process agricultural inputs, such as sugarcane, beet, and cacao, to give rise to a new product (sugar or chocolate) and (2) those that begin with sugar and chocolate and process these further.

31131 Sugar Manufacturing

This industry comprises establishments primarily engaged in manufacturing raw sugar, liquid sugar, and refined sugar from sugarcane, raw cane sugar and sugarbeets.

311311 Sugarcane Mills

This U.S. industry comprises establishments primarily engaged in processing sugarcane.

The data published with NAICS code 311312 include the following SIC industry:

2061 Raw cane sugar

311312 Cane Sugar Refining

This U.S. industry comprises establishments primarily engaged in refining cane sugar from raw cane sugar.

The data published with NAICS code 311312 include the following SIC industry:

2062 Cane sugar refining

311313 Beet Sugar Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing refined beet sugar from sugarbeets

The data published with NAICS code 311313 include the following SIC industry:

2063 Beet sugar

31132 Chocolate and Confectionery Manufacturing From Cacao Beans

This industry comprises establishments primarily engaged in shelling, roasting, and grinding cacao beans and making chocolate cacao products and chocolate confectioneries.

311320 Chocolate and Confectionery Manufacturing From Cacao Beans

This U.S. industry comprises establishments primarily engaged in shelling, roasting, and grinding cacao beans and making chocolate cacao products and chocolate confectioneries.

The data published with NAICS code 311320 include the following SIC industries:

2066 Chocolate and cocoa products

31133 Confectionery Manufacturing From Purchased Chocolate

This industry comprises establishments primarily engaged in manufacturing chocolate confectioneries from chocolate produced elsewhere. Included in this industry are establishments primarily engaged in retailing chocolate confectionery products not for immediate consumption made on the premises from chocolate made elsewhere.

311330 Confectionery Manufacturing From Purchased Chocolate

This U.S. industry comprises establishments primarily engaged in manufacturing chocolate confectioneries from chocolate produced elsewhere. Included in this industry are establishments primarily engaged in retailing chocolate confectionery products not for immediate consumption made on the premises from chocolate made elsewhere.

The data published with NAICS code 311330 include the following SIC industries:

2064 Candy and other confectionery products and chewing gum (pt)

5441 Candy, nut, and confectionery stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311330 do not include establishments primarily engaged in the manufacture of chocolate products made from purchased chocolate. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3113301 Chocolate and Chocolate-type Confectionery Retail – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type chocolate and chocolate-type confectionery products not for immediate consumption made on the premises from chocolate produced elsewhere.

3113302 Chocolate and Chocolate-type Confectionery – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type chocolate and chocolate-type confectionery products from chocolate produced elsewhere.

31134 Nonchocolate Confectionery Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonchocolate confectioneries. Included in this industry are establishments primary engaged in retailing nonchocolate confectionery products not for immediate consumption made on the premises.

311340 Nonchocolate Confectionery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonchocolate confectioneries. Included in this industry are establishments primary engaged in retailing nonchocolate confectionery products not for immediate consumption made on the premises.

The data published with NAICS code 311340 include the following SIC industries:

2064 Candy and other confectionery products and chewing gum (pt)

2099 Food preparations, n.e.c. (pt)

5441 Candy, nut, and confectionery stores (pt)

3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type nonchocolate confectionery products, excluding cough drops, medicated candy, roasted peanuts, unsweetened popcorn and fountain syrup, not for immediate consumption made on the premises.

3113402 Nonchocolate-Type Confectionery Products – Manufacturer

Establishments primarily engaged in the manufacture of consumer-type nonchocolate confectionery products, excluding cough drops, medicated candy, roasted peanuts, unsweetened popcorn and fountain syrup.

3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing

This industry group includes (1) establishments that freeze food and (2) those that use preservation processes, such as pickling, canning, and dehydrating. Both types begin their production process with inputs of vegetable or animal origin.

31141 Frozen Food Manufacturing

This industry comprises establishments primarily engaged in manufacturing frozen fruit, frozen juices, frozen vegetables, and frozen specialty foods (except seafood), such as frozen dinners, entrees, and side dishes; frozen pizza; frozen whipped toppings; and frozen waffles, pancakes, and french toast.

311411 Frozen Fruit, Juice, and Vegetable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing frozen fruits; frozen vegetables; and frozen fruit juices, –ades, drinks, cocktail mixes and concentrates.

The data published with NAICS code 311411 include the following SIC industry:

2037 Frozen fruits and vegetables

311412 Frozen Specialty Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing frozen specialty foods (except seafood), such as frozen dinners, entrees, and side dishes; frozen pizza; frozen whipped topping; and frozen waffles, pancakes, and french toast.

The data published with NAICS code 311412 include the following SIC industry:

2038 Frozen specialties, n.e.c.

31142 Fruit and Vegetable Canning, Pickling, and Drying

This industry comprises establishments primarily engaged in manufacturing canned, pickled, and dried fruits, vegetables, and specialty foods. Establishments in this industry may package the dried or dehydrated ingredients they make with other purchased ingredients. Examples of products made by these establishments are canned juices; canned baby foods; canned soups (except seafood); canned dry beans; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste, pickles, relishes, jams and jellies, dried soup mixes and bullions, and sauerkraut.

311421 Fruit and Vegetable Canning

This U.S. industry comprises establishments primarily engaged in manufacturing canned, pickled, and brined fruits and vegetables. Examples of products made in these establishments are canned juices; canned jams and jellies; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut.

The data published with NAICS code 311421 include the following SIC industries:

2033 Canned fruits and vegetables

2035 Pickles, sauces, and salad dressings (pt)

311422 Specialty Canning

This U.S. industry comprises establishments primarily engaged in manufacturing canned specialty foods. Examples of products made in these establishments are canned baby food, canned baked beans, canned soups (except seafood), canned spaghetti, and other canned nationality foods.

The data published with NAICS code 311422 include the following SIC industry:

2032 Canned specialties (pt)

311423 Dried and Dehydrated Food Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) drying (including freeze-dried) and/or dehydrating fruits, vegetables, and soup mixes and bouillon and/or (2) drying and/or dehydrating ingredients and packaging them with other purchased ingredients, such as rice and dry pasta.

The data published with NAICS code 311423 include the following SIC industries:

2034 Dehydrated fruits, vegetables, and soups (pt)

2099 Food preparations, n.e.c. (pt)

3115 Dairy Product Manufacturing

This industry group comprises establishments that manufacture dairy products from raw milk, processed milk, and dairy substitutes.

31151 Dairy Product (Except Frozen) Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing dairy products (except frozen) from raw milk and/or processed milk products; (2) manufacturing dairy substitutes (except frozen) from soybeans and other nondairy substances; and (3) manufacturing dry, condensed, concentrated, and evaporated dairy and dairy substitute products.

311511 Fluid Milk Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing processed milk products, such as pasteurized milk or cream and sour cream and/or (2) manufacturing fluid milk dairy substitutes from soybeans and other nondairy substances.

The data published with NAICS code 311511 include the following SIC industry:

2026 Fluid milk

311512 Creamery Butter Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing creamery butter from milk and/or processed milk products.

The data published with NAICS code 311512 include the following SIC industry:

2021 Creamery butter

311513 Cheese Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cheese products (except cottage cheese) from raw milk and/or processed milk products and/or (2) manufacturing cheese substitutes from soybean and other nondairy substances.

The data published with NAICS code 311513 include the following SIC industry:

2022 Cheese, natural and processed

311514 Dry, Condensed, and Evaporated Dairy Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dry, condensed, and evaporated milk and dairy substitute products.

The data published with NAICS code 311514 include the following SIC industry:

2023 Dry, condensed and evaporated milk

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311514 do not include establishments primarily engaged in the manufacture of fluid milk processed with ultra-high temperature. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31152 Ice Cream and Frozen Dessert Manufacturing

This industry comprises establishments primarily engaged in manufacturing ice cream, frozen yogurts, frozen ices, sherbets, frozen tofu, and other frozen desserts (except bakery products).

311520 Ice Cream and Frozen Dessert Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ice cream, frozen yogurts, frozen ices, sherbets, frozen tofu, and other frozen desserts (except bakery products).

The data published with NAICS code 311520 include the following SIC industry:

2024 Ice cream and frozen desserts

3116 Meat Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31161, Animal Slaughtering and Processing.

31161 Animal Slaughtering and Processing

This industry comprises establishments primarily engaged in one or more of the following: (1) slaughtering animals; (2) preparing processed meats and meat byproducts; and (3) rendering and/or refining animal fat, bones, and meat scraps. This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased carcasses.

311611 Animal (Except Poultry) Slaughtering

This U.S. industry comprises establishments primary engaged in slaughtering animals (except poultry and small game). Establishments that slaughter and prepare meats are included in this industry.

The data published with NAICS code 311611 include the following SIC industries:

2011 Meat packing plants

2048 Prepared feeds, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311611 do not include establishments primarily engaged in custom slaughtering. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311612 Meat Processed From Carcasses

This U.S. industry comprises establishments primarily engaged in processing or preserving meat and meat byproducts (except poultry and small game) from purchased meats. This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased meats.

The data published with NAICS code 311612 include the following SIC industries:

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

311613 Rendering and Meat Byproduct Processing

This U.S. industry comprises establishments primarily engaged in rendering animal fat, bones, and meat scraps.

The data published with NAICS code 311613 include the following SIC industry:

2077 Animal and marine fats and oil (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311613 do not include establishments primarily engaged in manufacturing lard from purchased materials. The NAICS definitions will be fully implemented with the 2002 Economic Census.

311615 Poultry Processing

This U.S. industry comprises establishments primarily engaged in (1) slaughtering poultry and small game and/or (2) preparing processed poultry and small game meat and meat byproducts.

The data published with NAICS code 311615 include the following SIC industry:

2015 Poultry and egg processing (pt)

3117 Seafood Product Preparation and Packaging

This NAICS industry group includes establishments classified in NAICS Industry 31171, Seafood Product Preparation and Packaging.

31171 Seafood Product Preparation and Packaging

This industry comprises establishments primarily engaged in one or more of the following: (1) canning seafood (including soup); (2) smoking, salting, and drying seafoods; (3) eviscerating fresh fish by removing heads, fins, scales, bones, and entrails; (4) shucking and packing fresh shellfish; (5) processing marine fats and oils; and (6) freezing seafood. Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are included in this industry.

311711 Seafood Canning

This U.S. industry comprises establishments primarily engaged in (1) canning seafood (including soup) and marine fats and oils and/or (2) smoking, salting, and drying seafoods. Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are included in this industry.

The data published with NAICS code 311711 include the following SIC industries:

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

311712 Fresh and Frozen Seafood Processing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) eviscerating fresh fish by removing heads, fins, scales, bones, and

entrails; (2) shucking and packing fresh shellfish; (3) manufacturing frozen seafood; and (4) processing fresh and frozen marine fats and oils.

The data published with NAICS code 311712 include the following SIC industries:

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

3118 Bakeries and Tortilla Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 31181, Bread and Bakery Product Manufacturing; 31182, Cookie, Cracker, and Pasta Manufacturing; and 31183, Tortilla Manufacturing.

31181 Bread and Bakery Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fresh and frozen bread and other bakery products.

311811 Retail Bakeries

This U.S. industry comprises establishments primarily engaged in retailing bread and other bakery products not for immediate consumption made on the premises from flour, not from prepared dough.

The data published with NAICS code 311811 include the following SIC industry:

5461 Retail bakeries (pt)

311812 Commercial Bakeries

This U.S. industry comprises establishments primarily engaged in manufacturing fresh and frozen bread and bread-type rolls and other fresh bakery (except cookies and crackers) products.

The data published with NAICS code 311812 include the following SIC industries:

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

311813 Frozen Cakes, Pies, and Other Pastries Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing frozen bakery products (except bread), such as cakes, pies, and doughnuts.

The data published with NAICS code 311813 include the following SIC industry:

2053 Frozen bakery products, except bread

31182 Cookie, Cracker, and Pasta Manufacturing

This industry comprises establishments primarily engaged in one of the following: (1) manufacturing cookies and crackers; (2) preparing flour and dough mixes and

dough from flour ground elsewhere; and (3) manufacturing dry pasta. The establishments in this industry may package the dry pasta they manufacture with other ingredients.

311821 Cookie and Cracker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cookies, crackers, and other products, such as ice cream cones.

The data published with NAICS code 311821 include the following SIC industry:

2052 Cookies and crackers (pt)

311822 Flour Mixes and Dough Manufacturing From Purchased Flour

This U.S. industry comprises establishments primarily engaged in manufacturing prepared flour mixes or dough mixes from flour ground elsewhere.

The data published with NAICS code 311822 include the following SIC industries:

2045 Blended and prepared flour

311823 Dry Pasta Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dry pasta. The establishments in this industry may package the dry pasta they manufacture with other ingredients.

The data published with NAICS code 311823 include the following SIC industry:

2098 Macaroni and spaghetti

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311823 do not include dry pasta plants primarily engaged in packaging dry pasta with other ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31183 Tortilla Manufacturing

This industry comprises establishments primarily engaged in manufacturing tortillas.

311830 Tortilla Manufacturing

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

The data published with NAICS code 311830 include the following SIC industry:

2099 Food preparations, n.e.c. (pt)

3119 Other Food Manufacturing

This industry group comprises establishments primarily engaged in manufacturing food (except animal food; grain and oilseed milling; sugar and confectionery products; preserved fruit, vegetable, and specialty foods; dairy products; meat products; seafood products; and bakeries and tortillas). The industry group includes industries with different productive processes, such as snack food manufacturing; coffee and tea manufacturing; concentrate, syrup, condiment, and spice manufacturing; and, in general, an entire range of other miscellaneous food product manufacturing.

31191 Snack Food Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) salting, roasting, drying, cooking, or canning nuts; (2) processing grains or seeds into snacks; (3) manufacturing peanut butter; and (4) manufacturing potato chips, corn chips, popped popcorn, pretzels (except soft), pork rinds, and similar snacks.

311911 Roasted Nuts and Peanut Butter Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) salting, roasting, drying, cooking, or canning nuts; (2) processing grains or seeds into snacks; and (3) manufacturing peanut butter.

The data published with NAICS code 311911 include the following SIC industries:

2068 Salted and roasted nuts and seeds

2099 Food preparations, n.e.c. (pt)

311919 Other Snack Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing snack foods (except roasted nuts and peanut butter).

The data published with NAICS code 311919 include the following SIC industries:

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

31192 Coffee and Tea Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) roasting coffee; (2) manufacturing coffee and tea concentrates (including instant and freeze-dried); (3) blending tea; (4) manufacturing herbal tea; and (5) manufacturing coffee extracts, flavorings, and syrups.

311920 Coffee and Tea Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) roasting coffee; (2) manufacturing coffee and tea concentrates (including instant and freeze-dried); (3) blending tea; (4) manufacturing herbal tea; and (5) manufacturing coffee extracts, flavorings, and syrups.

The data published with NAICS code 311920 include the following SIC industries:

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

2099 Food preparations, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311920 do not include establishments primarily engaged in the manufacture of coffee flavorings and syrups. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31193 Flavoring Syrup and Concentrate Manufacturing

This industry comprises establishments primarily engaged in manufacturing flavoring syrup drink concentrates and related products for soda fountain use or for the manufacture of soft drinks.

311930 Flavoring Syrup and Concentrate Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing flavoring syrup drink concentrates and related products for soda fountain use or for the manufacture of soft drinks.

The data published with NAICS code 311930 include the following SIC industry:

2087 Flavoring extracts and syrups, n.e.c. (pt)

31194 Seasoning and Dressing Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing dressings and sauces, such as mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravies); (2) manufacturing spices, table salt, seasoning, and flavoring extracts (except coffee and meat), and natural food colorings; and (3) manufacturing dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravy).

The data published with NAICS code 311941 include the following SIC industries:

2035 Pickles, sauces, and salad dressings (pt)

2099 Food preparations, n.e.c.(pt)

311942 Spice and Extract Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing spices, table salt, seasonings, flavoring extracts (except coffee and meat), and natural food colorings and/or (2) manufacturing dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

The data published with NAICS code 311942 include the following SIC industries:

2087 Flavoring extracts and syrups, n.e.c. (pt)

2095 Roasted coffee (pt)

2099 Food preparations, n.e.c. (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311942 include establishments primarily engaged in the manufacture of coffee extracts but do not include establishments primarily engaged in the manufacture of malt extract. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31199 All Other Food Manufacturing

This industry comprises establishments primarily engaged in manufacturing food (except animal food; grain and oilseed milling; sugar and confectionery products; preserved fruits, vegetables, and specialties; dairy products; meat products; seafood products; bakeries and tortillas; snack foods; coffee and tea; flavoring syrups and concentrates; seasonings; and dressings). Included in this industry are establishments primarily engaged in mixing purchased dried and/or dehydrated ingredients including those mixing purchased dried and/or dehydrated ingredients for soup mixes and bouillon.

311991 Perishable Prepared Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing perishable prepared foods, such as salads, sandwiches, prepared meals, fresh pizza, fresh pasta, and peeled or cut vegetables.

The data published with NAICS code 311991 include the following SIC industry:

2099 Food preparations, n.e.c. (pt)

311999 All Other Miscellaneous Food Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food (except animal food; grain and oilseed milling; sugar and confectionery products; preserved fruits, vegetables, and specialties; dairy products; meat products; seafood products; bakeries and tortillas; snack foods; coffee and tea; flavoring syrups and concentrates; seasonings and dressings; and perishable prepared food). Included in this industry are establishments primarily engaged in mixing purchased dried and/or dehydrated ingredients including those mixing purchased dried and/or dehydrated ingredients for soup mixes and bouillon.

The data published with NAICS code 311999 include the following SIC industries:

2015 Poultry slaughtering and processing (pt)

2032 Canned specialties (pt)

2087 Flavoring extracts and syrups, n.e.c. (pt)

2099 Food preparations, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311999 do not include establishments primarily engaged in the manufacture of soup mixes from purchased dehydrated ingredients. The NAICS definitions will be fully implemented with the 2002 Economic Census.

312 Beverage and Tobacco Product Manufacturing

Industries in the Beverage and Tobacco Product Manufacturing subsector manufacture beverages and tobacco products. The industry group, Beverage Manufacturing, includes three types of establishments: (1) those that manufacture nonalcoholic beverages; (2) those that manufacture alcoholic beverages through the fermentation process; and (3) those that produce distilled alcoholic beverages. Ice manufacturing, while not a beverage, is included with nonalcoholic beverage manufacturing because it uses the same production process as water purification.

In the case of activities related to the manufacture of beverages, the structure follows the defined productive processes. Brandy, a distilled beverage, was not placed

under distillery product manufacturing, but rather under the NAICS class for winery product manufacturing since the productive process used in the manufacturing of alcoholic grape-based beverages produces both wines (fermented beverage) and brandies (distilled beverage).

The industry group, Tobacco Manufacturing, includes two types of establishments: (1) those engaged in redrying and stemming tobacco and (2) those that manufacture tobacco products, such as cigarettes and cigars.

3121 Beverage Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 31211, Soft Drink and Ice Manufacturing; 31212, Breweries; 31213, Wineries; and 31214, Distilleries.

31211 Soft Drink and Ice Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing soft drinks; (2) manufacturing ice; and (3) purifying and bottling water.

312111 Soft Drink Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing soft drinks and artificially carbonated waters.

The data published with NAICS code 312111 include the following SIC industry:

2086 Bottled and canned soft drinks (pt)

312112 Bottled Water Manufacturing

This U.S. industry comprises establishments primarily engaged in purifying and bottling water (including naturally carbonated).

The data published with NAICS code 312112 include the following SIC industry:

2086 Bottled and canned soft drinks (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 312112 do not include establishments primarily engaged in the bottling of mineral or spring water. The NAICS definitions will be fully implemented with the 2002 Economic Census.

312113 Ice Manufacturing

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

The data published with NAICS code 312113 include the following SIC industry:

2097 Manufactured ice

31212 Breweries

This industry comprises establishments primarily engaged in brewing beer, ale, malt liquors, and nonalcoholic beer.

312120 Breweries

This U.S. industry comprises establishments primarily engaged in brewing beer, ale, malt liquors, and nonalcoholic beer.

The data published with NAICS code 312120 include the following SIC industry:

2082 Malt beverages

31213 Wineries

This industry comprises establishments primarily engaged in one or more of the following: (1) growing grapes and manufacturing wine and brandies; (2) manufacturing wine and brandies from grapes and other fruits grown elsewhere; and (3) blending wines and brandies.

312130 Wineries

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) growing grapes and manufacturing wine and brandies; (2) manufacturing wine and brandies from grapes and other fruits grown elsewhere; and (3) blending wines and brandies.

The data published with NAICS code 312130 include the following SIC industry:

2084 Wines, brandy, and brandy spirits

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 312130 do not include establishments primarily engaged in the manufacture of applejack. The NAICS definitions will be fully implemented with the 2002 Economic Census.

31214 Distilleries

This industry comprises establishments primarily engaged in one or more of the following: (1) distilling potable liquors (except brandies); (2) distilling and blending liquors; and (3) blending and mixing liquors and other ingredients.

312140 Distilleries

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) distilling potable liquors (except brandies); (2) distilling and blending liquors; and (3) blending and mixing liquors and other ingredients.

The data published with NAICS code 312140 include the following SIC industry:

2085 Distilled liquor, except brandy

3122 Tobacco Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 31221, Tobacco Stemming and Redrying; and 31222, Tobacco Product Manufacturing.

31221 Tobacco Stemming and Redrying

This industry comprises establishments primarily engaged in the stemming and redrying of tobacco.

312210 Tobacco Stemming and Redrying

This U.S. industry comprises establishments primarily engaged in the stemming and redrying of tobacco.

The data published with NAICS code 312210 include the following SIC industry:

2141 Tobacco stemming and redrying (pt)

31222 Tobacco Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and reconstituted tobacco.

312221 Cigarette Manufacturing

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

The data published with NAICS code 312221 include the following SIC industries:

2111 Cigarettes

312229 Other Tobacco Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing tobacco products (except cigarettes).

The data published with NAICS code 312229 include the following SIC industries:

2121 Cigars

2131 Chewing and smoking tobacco

2141 Tobacco stemming and redrying (pt)

313 Textile Mills

Industries in the Textile Mills subsector group establishments that transform a basic fiber (natural or synthetic) into a product, such as yarn or fabric, that is further manufactured into usable items, such as apparel, sheets and towels, and textile bags for individual or industrial consumption. The further manufacturing may be performed in the same establishment and classified in this subsector, or it may be performed at a separate establishment and be classified elsewhere in manufacturing.

The main processes in this subsector include preparation and spinning of fiber, knitting or weaving of fabric, and the finishing of the textile. The NAICS structure follows and captures this process flow. Major industries in this flow, such as preparation of fibers, weaving of fabric, knitting of fabric, and fiber and fabric finishing, are uniquely identified. Texturizing, throwing, twisting, and winding of yarn contains aspects of both fiber preparation and fiber finishing and is classified with preparation of fibers rather than with finishing of fibers.

NAICS separates the manufacturing of primary textiles and the manufacturing of textile products (except apparel) when the textile product is produced from purchased primary textiles, such as fabric. The manufacturing of textile products (except apparel) from purchased fabric is classified in Subsector 314, Textile Product Mills, and apparel from purchased fabric is classified in Subsector 315, Apparel Manufacturing.

Excluded from this subsector are establishments that weave or knit fabric and make garments. These establishments are included in Subsector 315, Apparel Manufacturing.

3131 Fiber, Yarn, and Thread Mills

This NAICS industry group includes establishments classified in NAICS Industry 31311, Fiber, Yarn, and Thread Mills.

31311 Fiber, Yarn, and Thread Mills

This industry comprises establishments primarily engaged in one or more of the following: (1) spinning yarn; (2) manufacturing thread of any fiber; (3) texturizing, throwing, twisting, and winding purchased yarn or manmade fiber filaments; and (4) producing hemp yarn and further processing into rope or bags.

313111 Yarn Spinning Mills

This U.S. industry comprises establishments primarily engaged in spinning yarn from any fiber and/or producing hemp yarn and further processing into rope or bags.

The data published with NAICS code 313111 include the following SIC industries:

2281 Yarn spinning mills

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

313112 Yarn Texturizing, Throwing, and Twisting Mills

This U.S. industry comprises establishments primarily engaged in texturizing, throwing, twisting, spooling, or winding purchased yarns or manmade fiber filaments.

The data published with NAICS code 313112 include the following SIC industry:

2282 Yarn throwing and winding mills (pt)

3131121 Yarn Texturing, Throwing, and Twisting Mills – Manufacturer

Establishments primarily engaged in texturing, throwing, twisting, spooling, or winding purchased yarns or manmade filaments.

3131122 Yarn Texturing, Throwing, and Twisting Mills – Commission Finisher

Establishments primarily engaged in throwing, twisting, spooling, or winding yarns or manmade filaments on a commission basis.

313113 Thread Mills

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

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

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

3132 Fabric Mills

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

31321 Broadwoven Fabric Mills

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

313210 Broadwoven Fabric Mills

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

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

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

31322 Narrow Fabric Mills and Schiffli Machine Embroidery

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

313221 Narrow Fabric Mills

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

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

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

313222 Schiffli Machine Embroidery

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

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

- 2397 Schiffli machine embroideries

31323 Nonwoven Fabric Mills

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

313230 Nonwoven Fabric Mills

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

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

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

31324 Knit Fabric Mills

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

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

313241 Weft Knit Fabric Mills

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

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

2257 Circular knit fabric mills (pt)

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

3132411 Weft Knit Fabric Mills – Manufacturer

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

3132412 Weft Knit Fabric Mills – Jobber

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

3132413 Weft Knit Fabric Mills – Contractor

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

313249 Other Knit Fabric and Lace Mills

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

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

2258 Lace and warp knit fabric mills (pt)

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

3132491 Other Knit Fabric and Lace Mills – Manufacturer

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

3132492 Other Knit Fabric and Lace Mills – Jobber

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

3132493 Other Knit Fabric and Lace Mills – Contractor

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

3133 Textile and Fabric Finishing and Fabric Coating Mills

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

31331 Textile and Fabric Finishing Mills

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

313311 Broadwoven Fabric Finishing Mills

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

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

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

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

3133111 Broadwoven Fabric Finishing Mills – Manufacturer

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

3133112 Broadwoven Fabric Finishing Mills – Converter

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

3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

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

313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

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

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

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

- 2269 Finishing plants, n.e.c.
- 2282 Yarn throwing and winding mills (pt)
- 2284 Thread mills (pt)
- 2299 Textile goods, n.e.c. (pt)
- 5131 Piece goods, notions and other dry goods (pt)

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

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

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

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

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

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

31332 Fabric Coating Mills

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

313320 Fabric Coating Mills

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

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

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

314 Textile Product Mills

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

3141 Textile Furnishings Mills

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

31411 Carpet and Rug Mills

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

314110 Carpet and Rug Mills

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

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

2273 Carpets and rugs

31412 Curtain and Linen Mills

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

314121 Curtain and Drapery Mills

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

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

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

314129 Other Household Textile Product Mills

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

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

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

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

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

3149 Other Textile Product Mills

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

31491 Textile Bag and Canvas Mills

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

314911 Textile Bag Mills

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

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

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

2393 Textile bags

314912 Canvas and Related Product Mills

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

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

2394 Canvas and related products

31499 All Other Textile Product Mills

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

314991 Rope, Cordage, and Twine Mills

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

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

2298 Cordage and twine

314992 Tire Cord and Tire Fabric Mills

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

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

2296 Tire cord and fabric

314999 All Other Miscellaneous Textile Product Mills

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

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

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

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

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

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

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

315 Apparel Manufacturing

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

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

3151 Apparel Knitting Mills

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

31511 Hosiery and Sock Mills

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

315111 Sheer Hosiery Mills

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

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

2251 Women's hosiery, except socks

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

315119 Other Hosiery and Sock Mills

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

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

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

31519 Other Apparel Knitting Mills

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

315191 Outerwear Knitting Mills

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

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

2253 Knit outerwear mills

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

3151911 Outerwear Knitting Mills – Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

3151912 Outerwear Knitting Mills – Jobber

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

3151913 Outerwear Knitting Mills – Contractor

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

315192 Underwear and Nightwear Knitting Mills

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

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

2254 Knit underwear mills

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

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

3152 Cut and Sew Apparel Manufacturing

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

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

31521 Cut and Sew Apparel Contractors

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

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

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

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

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

2321 Shirts, men’s and boys’ (pt)

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

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

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

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

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

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

2395 Pleating and stitching (pt)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

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

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

2342 Brassieres and allied garments (pt)

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

2384 Robes and dressing gowns (pt)

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

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

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

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

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

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

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

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

2331 Women's blouses and waists (pt)

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

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

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

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

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

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

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

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

2335 Women's dresses (pt)

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

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

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

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

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

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

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

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

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

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

2337 Women's suits and coats (pt)

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

31529 Other Cut and Sew Apparel Manufacturing

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

315291 Infants' Cut and Sew Apparel Manufacturing

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

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

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

3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

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

3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

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

315292 Fur and Leather Apparel Manufacturing

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

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

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

315299 All Other Cut and Sew Apparel Manufacturing

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

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

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

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

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

3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

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

3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

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

3159 Apparel Accessories and Other Apparel Manufacturing

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

31599 Apparel Accessories and Other Apparel Manufacturing

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

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

315991 Hat, Cap, and Millinery Manufacturing

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

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

2353 Hats, caps, and millinery

315992 Glove and Mitten Manufacturing

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

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

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

315993 Men's and Boys' Neckwear Manufacturing

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

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

2323 Men's and boys' neckwear

315999 Other Apparel Accessories and Other Apparel Manufacturing

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

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

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

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

2385 Waterproof outer garments (pt)

2387 Apparel belts

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

2396 Automotive and apparel trimmings (pt)

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

5699 Miscellaneous apparel and accessory stores (pt)

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

316 Leather and Allied Product Manufacturing

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

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

3161 Leather and Hide Tanning and Finishing

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

31611 Leather and Hide Tanning and Finishing

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

316110 Leather and Hide Tanning and Finishing

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

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

3111 Leather tanning and finishing

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

3162 Footwear Manufacturing

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

31621 Footwear Manufacturing

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

316211 Rubber and Plastics Footwear Manufacturing

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

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

Rubber and plastics footwear

316212 House Slipper Manufacturing

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

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

3142 House slippers

316213 Men's Footwear (Except Athletic) Manufacturing

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

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

3143 Men's footwear, except athletic

316214 Women's Footwear (Except Athletic) Manufacturing

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

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

3144 Women's footwear, except athletic

316219 Other Footwear Manufacturing

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

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

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

3169 Other Leather and Allied Product Manufacturing

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

31699 Other Leather and Allied Product Manufacturing

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

316991 Luggage Manufacturing

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

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

3161 Luggage

316992 Women's Handbag and Purse Manufacturing

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

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

3171 Women's handbags and purses

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

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

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

3172 Personal leather goods, n.e.c.

316999 All Other Leather Goods Manufacturing

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

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

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

321 Wood Product Manufacturing

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

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

3211 Sawmills and Wood Preservation

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

32111 Sawmills and Wood Preservation

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

321113 Sawmills

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

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

2421 Sawmills and planing mills, general (pt)

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

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

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

321114 Wood Preservation

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

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

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

2491 Wood preserving

3212 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

32121 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

321211 Hardwood Veneer and Plywood Manufacturing

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

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

2435 Hardwood veneer and plywood

321212 Softwood Veneer and Plywood Manufacturing

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

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

2436 Softwood veneer and plywood

321213 Engineered Wood Member (Except Truss) Manufacturing

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

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

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

321214 Truss Manufacturing

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

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

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

321219 Reconstituted Wood Product Manufacturing

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

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

2493 Reconstituted wood products

3219 Other Wood Product Manufacturing

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

32191 Millwork

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

321911 Wood Window and Door Manufacturing

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

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

2431 Millwork (pt)

321912 Cut Stock, Resawing Lumber, and Planing

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

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

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

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

321918 Other Millwork (Including Flooring)

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

32192 Wood Container and Pallet Manufacturing

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

321920 Wood Container and Pallet Manufacturing

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

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

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

2441 Nailed wood boxes & shoo

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

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

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

32199 All Other Wood Product Manufacturing

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

321991 Manufactured Home (Mobile Home) Manufacturing

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

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

2451 Mobile homes

321992 Prefabricated Wood Building Manufacturing

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

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

2452 Prefabricated wood buildings

321999 All Other Miscellaneous Wood Product Manufacturing

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

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

2421 Sawmills and planing mills, general (pt)

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

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

3131 Footwear cut stock and findings (pt)

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

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

322 Paper Manufacturing

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

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

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

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

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

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

3221 Pulp, Paper, and Paperboard Mills

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

32211 Pulp Mills

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

322110 Pulp Mills

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

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

2611 Pulp mills

32212 Paper Mills

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

322121 Paper (Except Newsprint) Mills

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

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

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

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

3221211 Paper (Except Newsprint) Mills – Integrated Producer

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

3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

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

322122 Newsprint Mills

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

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

2621 Paper mills (pt)

3221221 Newsprint Mills – Integrated Producer

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

3221222 Newsprint Mills – Nonintegrated Producer

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

32213 Paperboard Mills

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

322130 Paperboard Mills

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

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

2631 Paperboard mills

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

3221301 Paperboard Mills – Integrated Producer

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

3221302 Paperboard Mills – Nonintegrated Producer

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

3222 Converted Paper Product Manufacturing

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

32221 Paperboard Container Manufacturing

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

322211 Corrugated and Solid Fiber Box Manufacturing

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

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

2653 Corrugated and solid fiber boxes

322212 Folding Paperboard Box Manufacturing

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

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

2657 Folding paperboard boxes

322213 Setup Paperboard Box Manufacturing

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

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

2652 Setup paperboard boxes

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

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

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

2655 Fiber cans, drums, and similar products

322215 Nonfolding Sanitary Food Container Manufacturing

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

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

2656 Sanitary food containers

32222 Paper Bag and Coated and Treated Paper Manufacturing

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

322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

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

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

2671 Paper - coated and laminated, packaging (pt)

322222 Coated and Laminated Paper Manufacturing

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

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

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

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

322223 Plastics, Foil, and Coated Paper Bag Manufacturing

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

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

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

322224 Uncoated Paper and Multiwall Bag Manufacturing

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

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

2674 Bags - uncoated paper and multiwall

322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

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

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

3497 Metal foil and leaf (pt)

322226 Surface-Coated Paperboard Manufacturing

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

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

2675 Die-cut paper and board (pt)

32223 Stationery Product Manufacturing

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

322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

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

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

2675 Die-cut paper and board (pt)

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

322232 Envelope Manufacturing

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

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

2677 Envelopes

322233 Stationery, Tablet, and Related Product Manufacturing

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

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

2678 Stationery products

32229 Other Converted Paper Product Manufacturing

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

322291 Sanitary Paper Product Manufacturing

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

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

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

322299 All Other Converted Paper Product Manufacturing

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

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

2675 Die-cut paper and board (pt)

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

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

323 Printing and Related Support Activities

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

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

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

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

3231 Printing and Related Support Activities

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

32311 Printing

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

323110 Commercial Lithographic Printing

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

The data published with NAICS code 323110 include the following SIC industries:

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

323111 Commercial Gravure Printing

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

The data published with NAICS code 323111 include the following SIC industries:

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

323112 Commercial Flexographic Printing

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

The data published with NAICS code 323112 include the following SIC industries:

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

323113 Commercial Screen Printing

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

The data published with NAICS code 323113 include the following SIC industries:

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

323114 Quick Printing

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

The data published with NAICS code 323114 include the following SIC industries:

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

323115 Digital Printing

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

The data published with NAICS code 323115 include the following SIC industry:

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

323116 Manifold Business Form Printing

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

The data published with NAICS code 323116 include the following SIC industries:

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

323117 Book Printing

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

The data published with NAICS code 323117 include the following SIC industry:

- 2732 Book printing

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

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

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

2782 Blankbooks and looseleaf binders (pt)

323119 Other Commercial Printing

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

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

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

2771 Greeting cards (pt)

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

32312 Support Activities for Printing

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

323121 Tradebinding and Related Work

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

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

2789 Bookbinding and related work

323122 Prepress Services

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

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

2791 Typesetting

2796 Platemaking services

324 Petroleum and Coal Products Manufacturing

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

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

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

3241 Petroleum and Coal Products Manufacturing

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

32411 Petroleum Refineries

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

324110 Petroleum Refineries

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

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

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

324121 Asphalt Paving Mixture and Block Manufacturing

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

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

2951 Asphalt paving mixtures and blocks

324122 Asphalt Shingle and Coating Materials Manufacturing

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

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

2952 Asphalt felts and coatings

32419 Other Petroleum and Coal Products Manufacturing

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

324191 Petroleum Lubricating Oil and Grease Manufacturing

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

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

2992 Lubricating oils and greases

324199 All Other Petroleum and Coal Products Manufacturing

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

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

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

3312 Blast furnaces and steel mills (pt)

325 Chemical Manufacturing

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

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

3251 Basic Chemical Manufacturing

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

32511 Petrochemical Manufacturing

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

325110 Petrochemical Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

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

32512 Industrial Gas Manufacturing

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

325120 Industrial Gas Manufacturing

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

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

2813 Industrial gases

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

32513 Synthetic Dye and Pigment Manufacturing

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

325131 Inorganic Dye and Pigment Manufacturing

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

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

2816 Inorganic pigments (pt)

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

325132 Synthetic Organic Dye and Pigment Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

32518 Other Basic Inorganic Chemical Manufacturing

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

325181 Alkalies and Chlorine Manufacturing

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

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

2812 Alkalies and chlorine

325182 Carbon Black Manufacturing

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

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

2816 Inorganic pigments (pt)

2895 Carbon black

325188 All Other Basic Inorganic Chemical Manufacturing

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

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

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

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

32519 Other Basic Organic Chemical Manufacturing

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

325191 Gum and Wood Chemical Manufacturing

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

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

2861 Gum and wood chemicals

325192 Cyclic Crude and Intermediate Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

325193 Ethyl Alcohol Manufacturing

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

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

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

325199 All Other Basic Organic Chemical Manufacturing

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

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

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

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

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

32521 Resin and Synthetic Rubber Manufacturing

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

325211 Plastics Material and Resin Manufacturing

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

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

2821 Plastics materials and resins

325212 Synthetic Rubber Manufacturing

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

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

2822 Synthetic rubber

32522 Artificial and Synthetic Fibers and Filaments Manufacturing

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

325221 Cellulosic Organic Fiber Manufacturing

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

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

2823 Cellulosic manmade fibers

325222 Noncellulosic Organic Fiber Manufacturing

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

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

2824 Organic fibers, noncellulosic

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

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

32531 Fertilizer Manufacturing

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

325311 Nitrogenous Fertilizer Manufacturing

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

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

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

2873 Nitrogenous fertilizers

325312 Phosphatic Fertilizer Manufacturing

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

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

2874 Phosphatic fertilizers

325314 Fertilizer (Mixing Only) Manufacturing

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

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

2875 Fertilizers, mixing only

32532 Pesticide and Other Agricultural Chemical Manufacturing

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

325320 Pesticide and Other Agricultural Chemical Manufacturing

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

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

2879 Agricultural chemicals, n.e.c.

3254 Pharmaceutical and Medicine Manufacturing

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

32541 Pharmaceutical and Medicine Manufacturing

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

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

325411 Medicinal and Botanical Manufacturing

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

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

2833 Medicinals and botanicals

325412 Pharmaceutical Preparation Manufacturing

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

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

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

325413 In-Vitro Diagnostic Substance Manufacturing

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

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

2835 Diagnostic substances (pt)

325414 Biological Product (Except Diagnostic) Manufacturing

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

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

2836 Biological products, except diagnostic

3255 Paint, Coating, and Adhesive Manufacturing

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

32551 Paint and Coating Manufacturing

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

325510 Paint and Coating Manufacturing

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

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

2851 Paints and allied products

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

32552 Adhesive Manufacturing

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

325520 Adhesive Manufacturing

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

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

2891 Adhesives and sealants

3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

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

32561 Soap and Cleaning Compound Manufacturing

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

325611 Soap and Other Detergent Manufacturing

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

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

2841 Soap and other detergents

2844 Toilet preparations (pt)

325612 Polish and Other Sanitation Good Manufacturing

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

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

2842 Polishes and sanitation goods

325613 Surface Active Agent Manufacturing

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

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

2843 Surface active agents

32562 Toilet Preparation Manufacturing

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

325620 Toilet Preparation Manufacturing

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

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

2844 Toilet preparations (pt)

3259 Other Chemical Product Manufacturing

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

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

32591 Printing Ink Manufacturing

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

325910 Printing Ink Manufacturing

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

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

2893 Printing ink

32592 Explosives Manufacturing

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 Explosives Manufacturing

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

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

2892 Explosives

32599 All Other Chemical Product and Preparation Manufacturing

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

325991 Custom Compounding of Purchased Resins

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

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

3087 Custom compound purchased resins

325992 Photographic Film, Paper, Plate, and Chemical Manufacturing

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

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

3861 Photographic equipment and supplies (pt)

325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

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

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

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

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

3952 Lead pencils and art goods (pt)

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

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

326 Plastics and Rubber Products Manufacturing

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

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

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

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

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

3261 Plastics Product Manufacturing

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

32611 Unsupported Plastics Film, Sheet, and Bag Manufacturing

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

326111 Unsupported Plastics Bag Manufacturing

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

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

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

326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

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

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

2671 Paper - coated and laminated, packaging (pt)

326113 Unsupported Plastics Film and Sheet (Except Packaging) Manufacturing

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

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

3081 Unsupported plastics film and sheet

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

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

326121 Unsupported Plastics Profile Shapes Manufacturing

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

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

3082 Unsupported plastics profile shapes

326122 Plastics Pipe and Pipe Fitting Manufacturing

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

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

3084 Plastics pipe

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

32613 Laminated Plastics Plate, Sheet, and Shape Manufacturing

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

326130 Laminated Plastics Plate, Sheet, and Shape Manufacturing

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

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

3083 Laminated plastics plate and sheet

32614 Polystyrene Foam Product Manufacturing

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

326140 Polystyrene Foam Product Manufacturing

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

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

3086 Plastics foam products (pt)

32615 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

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

326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

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

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

3086 Plastics foam products (pt)

32616 Plastics Bottle Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 Plastics Bottle Manufacturing

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

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

3085 Plastics bottles

32619 Other Plastics Product Manufacturing

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

326191 Plastics Plumbing Fixture Manufacturing

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

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

3088 Plastics plumbing fixtures

326192 Resilient Floor Covering Manufacturing

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

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

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

3996 Hard surface floor coverings

326199 All Other Plastics Product Manufacturing

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

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

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

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

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

3262 Rubber Product Manufacturing

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

32621 Tire Manufacturing

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

326211 Tire Manufacturing (Except Retreading)

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

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

3011 Tires and inner tubes

326212 Tire Retreading

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

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

7534 Tire retreading and repair shops (pt)

32622 Rubber and Plastics Hoses and Belting Manufacturing

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

326220 Rubber and Plastics Hoses and Belting Manufacturing

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

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

3052 Rubber and plastics hose and belting

32629 Other Rubber Product Manufacturing

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

326291 Rubber Product Manufacturing for Mechanical Use

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

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

3061 Mechanical rubber goods

326299 All Other Rubber Product Manufacturing

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

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

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

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

327 Nonmetallic Mineral Product Manufacturing

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

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

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

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

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

3271 Clay Product and Refractory Manufacturing

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

32711 Pottery, Ceramics, and Plumbing Fixture Manufacturing

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

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

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

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

3261 Vitreous plumbing fixtures

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

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

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

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

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

327113 Porcelain Electrical Supply Manufacturing

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

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

3264 Porcelain electrical supplies

32712 Clay Building Material and Refractories Manufacturing

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

327121 Brick and Structural Clay Tile Manufacturing

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

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

3251 Brick and structural clay tile

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

327122 Ceramic Wall and Floor Tile Manufacturing

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

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

3253 Ceramic wall and floor tile

327123 Other Structural Clay Product Manufacturing

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

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

3259 Structural clay products, n.e.c.

327124 Clay Refractory Manufacturing

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

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

3255 Clay refractories

327125 Nonclay Refractory Manufacturing

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

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

3297 Nonclay refractories

3272 Glass and Glass Product Manufacturing

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

32721 Glass and Glass Product Manufacturing

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

327211 Flat Glass Manufacturing

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

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

3211 Flat glass

327212 Other Pressed and Blown Glass and Glassware Manufacturing

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

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

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

327213 Glass Container Manufacturing

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

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

3221 Glass containers

327215 Glass Product Manufacturing Made of Purchased Glass

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

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

3231 Products of purchased glass

3273 Cement and Concrete Product Manufacturing

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

32731 Cement Manufacturing

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

327310 Cement Manufacturing

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

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

3241 Cement, hydraulic

32732 Ready-Mix Concrete Manufacturing

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

327320 Ready-Mix Concrete Manufacturing

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

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

3273 Ready-mixed concrete

32733 Concrete Pipe, Brick, and Block Manufacturing

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

327331 Concrete Block and Brick Manufacturing

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

The data published with NAICS code 327331 include the following SIC industry:

3271 Concrete brick and block

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327331 do not include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327332 Concrete Pipe Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

The data published with NAICS code 327332 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

32739 Other Concrete Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 Other Concrete Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

The data published with NAICS code 327390 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

3274 Lime and Gypsum Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32741, Lime Manufacturing; and 32742, Gypsum Product Manufacturing.

32741 Lime Manufacturing

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327410 Lime Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

The data published with NAICS code 327410 include the following SIC industry:

3274 Lime

32742 Gypsum Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

327420 Gypsum Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products, such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

The data published with NAICS code 327420 include the following SIC industries:

3275 Gypsum products

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

3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 Abrasive Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products

327910 Abrasive Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

The data published with NAICS code 327910 include the following SIC industry:

3291 Abrasive products (pt)

32799 All Other Nonmetallic Mineral Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

327991 Cut Stone and Stone Product Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

The data published with NAICS code 327991 include the following SIC industry:

3281 Cut stone and stone products

327992 Ground or Treated Mineral and Earth Manufacturing

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

The data published with NAICS code 327992 include the following SIC industry:

3295 Minerals, ground or treated

327993 Mineral Wool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

The data published with NAICS code 327993 include the following SIC industry:

3296 Mineral wool

327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

The data published with NAICS code 327999 include the following SIC industries:

3272 Concrete products, n.e.c. (pt)

3292 Asbestos products (pt)

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

331 Primary Metal Manufacturing

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill, industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 Iron and Steel Mills and Ferroalloy Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33111, Iron and Steel Mills and Ferroalloy Manufacturing.

33111 Iron and Steel Mills and Ferroalloy Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) manufacturing ferroalloys; (5) making steel; (6) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (7) making steel and forming pipe and tube.

331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) making steel; (5) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (6) making steel and forming tube and pipe.

The data published with NAICS code 331111 include the following SIC industries:

3312 Blast furnaces and steel mills (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331111 include establishments primarily engaged in the manufacture of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3311111 Iron and Steel Mills – Fully Integrated

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311112 Iron and Steel Mills – Partially Integrated With a Blast Furnace

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing ingots and/or 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

nonferrous metals (except copper and aluminum); (3) rolling, drawing, and extruding shapes from purchased nonferrous metals (except copper and aluminum); and (4) recovering nonferrous metals from scrap (except copper and aluminum) and rolling, drawing, or extruding shapes in integrated facilities.

331491 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube) from purchased nonferrous metals) and/or (2) recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube) in integrated mills.

The data published with NAICS code 331491 include the following SIC industries:

3356 Nonferrous rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) alloying purchased nonferrous metals and/or (2) recovering nonferrous metals from scrap. Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, wire) using smelting or refining processes.

The data published with NAICS code 331492 include the following SIC industries:

3313 Electrometallurgical products (pt)

3341 Secondary nonferrous metals (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331492 include establishments primarily engaged in the manufacture of other nonferrous additive alloys. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3315 Foundries

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping,

threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

Establishments in this industry group make castings from purchased metals or in integrated secondary smelting and casting facilities. When the production of primary metals is combined with making castings, the establishment is classified in 331 with the primary metal being made.

33151 Ferrous Metal Foundries

This industry comprises establishments primarily engaged in pouring molten iron and steel into molds of a desired shape to make castings. Establishments in this industry purchase iron and steel made in other establishments.

331511 Iron Foundries

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings, (e.g., cast iron man-hole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

The data published with NAICS code 331511 include the following SIC industries:

3321 Gray iron foundries

3322 Malleable iron foundries

331512 Steel Investment Foundries

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331512 include the following SIC industry:

3324 Steel investment foundries

331513 Steel Foundries (Except Investment)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331513 include the following SIC industry:

3325 Steel foundries, n.e.c.

33152 Nonferrous Metal Foundries

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals made in other establishments.

331521 Aluminum Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum die-castings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331521 include the following SIC industry:

3363 Aluminum die-castings

331522 Nonferrous (Except Aluminum) Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

The data published with NAICS code 331522 include the following SIC industry:

3364 Nonferrous die-casting, except aluminum

331524 Aluminum Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331524 include the following SIC industry:

3365 Aluminum foundries

331525 Copper Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

The data published with NAICS code 331525 include the following SIC industry:

3366 Copper foundries

331528 Other Nonferrous Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous

(except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

The data published with NAICS code 331528 include the following SIC industry:

3369 Nonferrous foundries, n.e.c.

332 Fabricated Metal Product Manufacturing

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The NAICS structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

3321 Forging and Stamping

This NAICS industry group includes establishments classified in NAICS Industry 33211, Forging and Stamping.

33211 Forging and Stamping

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing forgings from purchased metals; (2) manufacturing metal custom roll forming products; (3) manufacturing metal stamped and spun products (except automotive, cans, coins); and (4) manufacturing powder metallurgy products. Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished

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

332111 Iron and Steel Forging

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

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

3462 Iron and steel forgings

332112 Nonferrous Forging

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

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

3463 Nonferrous forgings

332114 Custom Roll Forming

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

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

3449 Miscellaneous metal work (pt)

332115 Crown and Closure Manufacturing

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

332116 Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

The data published with NAICS code 332116 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

332117 Powder Metallurgy Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

The data published with NAICS code 332117 include the following SIC industry:

3499 Fabricated metal products, n.e.c. (pt)

3322 Cutlery and Handtool Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

33221 Cutlery and Handtool Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nonprecious and precious plated metal cutlery and flatware; (2) manufacturing nonpowered hand and edge tools; (3) manufacturing nonpowered handsaws; (4) manufacturing saw blades, all types (including those for sawing machines); and (5) manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillet) or stamped without further fabrication).

332211 Cutlery and Flatware (Except Precious) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarily engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

The data published with NAICS code 332212 include the following SIC industries:

- 3423 Hand and edge tools, n.e.c.
- 3523 Farm machinery and equipment (pt)
- 3524 Lawn and garden equipment (pt)
- 3545 Machine tool accessories (pt)
- 3699 Electrical equipment and supplies, n.e.c. (pt)
- 3799 Transportation equipment, n.e.c. (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing nonpowered handsaws and/or (2) manufacturing saw blades, all types (including those for power sawing machines).

The data published with NAICS code 332213 include the following SIC industry:

- 3425 Saw blades and handsaws

332214 Kitchen Utensil, Pot, and Pan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

The data published with NAICS code 332214 include the following SIC industry:

- 3469 Metal stampings, n.e.c. (pt)

3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, Ornamental and Architectural Metal Products Manufacturing.

33231 Plate Work and Fabricated Structural Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) prefabricated metal buildings, panels, and sections; (2) structural metal products; and (3) metal plate work products.

332311 Prefabricated Metal Building and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated metal buildings, panels, and sections.

The data published with NAICS code 332311 include the following SIC industry:

- 3448 Prefabricated metal buildings

332312 Fabricated Structural Metal Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

The data published with NAICS code 332312 include the following SIC industries:

- 3441 Fabricated structural metal
- 3449 Miscellaneous metal work (pt)

332313 Plate Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

The data published with NAICS code 332313 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33232 Ornamental and Architectural Metal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) metal framed windows (i.e., typically using purchased glass) and metal doors; (2) sheet metal work; and (3) ornamental and architectural metal products.

332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

- 2499 Wood products, n.e.c. (pt)
- 3442 Metal doors, sash, and trim
- 3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

The data published with NAICS code 332322 include the following SIC industry:

- 3444 Sheet metal work (pt)

332323 Ornamental and Architectural Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

The data published with NAICS code 332323 include the following SIC industries:

- 3446 Architectural metal work
- 3449 Miscellaneous metal work (pt)
- 3523 Farm machinery and equipment (pt)

3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing.

33241 Power Boiler and Heat Exchanger Manufacturing

This industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

332410 Power Boiler and Heat Exchanger Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

The data published with NAICS code 332410 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33242 Metal Tank (Heavy Gauge) Manufacturing

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332420 Metal Tank (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

The data published with NAICS code 332420 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33243 Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing

This industry comprises establishments primarily engaged in forming light gauge metal containers.

332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

The data published with NAICS code 332431 include the following SIC industry:

- 3411 Metal cans

332439 Other Metal Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

The data published with NAICS code 332439 include the following SIC industries:

- 3412 Metal barrels, drums, and pails
- 3429 Hardware, n.e.c. (pt)
- 3444 Sheet metal work (pt)
- 3499 Fabricated metal products, n.e.c. (pt)
- 3537 Industrial trucks and tractors (pt)

3325 Hardware Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

33251 Hardware Manufacturing

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

332510 Hardware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

The data published with NAICS code 332510 include the following SIC industries:

- 3429 Hardware, n.e.c. (pt)
- 3499 Fabricated metal products, n.e.c. (pt)

3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

33261 Spring and Wire Product Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing steel springs by forming, such as cutting, bending, and heat winding metal rod or strip stock and/or (2) manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock.

The data published with NAICS code 332611 include the following SIC industry:

- 3493 Steel springs, except wire

332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

The data published with NAICS code 332612 include the following SIC industry:

- 3495 Wire springs (pt)

332618 Other Fabricated Wire Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

The data published with NAICS code 332618 include the following SIC industries:

- 3315 Steel wire and related products (pt)
- 3399 Primary metal products, n.e.c. (pt)
- 3496 Miscellaneous fabricated wire products

3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332710 Machine Shops

This U.S. industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

The data published with NAICS code 332710 include the following SIC industry:

- 3599 Industrial machinery, n.e.c. (pt)

33272 Turned Product and Screw, Nut, and Bolt Manufacturing

This industry comprises establishments primarily engaged in (1) machining precision turned products or (2) manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners. Included in this industry are establishments primarily engaged manufacturing parts for machinery and equipment on a customized basis.

332721 Precision Turned Product Manufacturing

This U.S. industry comprises establishments known as precision turned manufacturers primarily engaged in machining precision products of all materials on a job or order basis. Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, and washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

33281 Coating, Engraving, Heat Treating, and Allied Activities

This industry comprises establishments primarily engaged in one or more of the following: (1) heat treating metals and metal products; (2) enameling, lacquering, varnishing metals and metal products; (3) hot dip galvanizing metals and metal products; (4) engraving, chasing, or

etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (5) powder coating metals and metal products; (6) electroplating, plating, anodizing, coloring, and finishing metals and metal products; and (7) providing other metal surfacing services for the trade. Establishments in this industry coat engravings and heat treat metals and metal formed products fabricated elsewhere.

332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

332812 Metal Coating, Engraving (Except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) enameling, lacquering, and varnishing metals and metal products; (2) hot dip galvanizing metals and metal products; (3) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (4) powder coating metals and metal products; and (5) providing other metal surfacing services for the trade.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3329 Other Fabricated Metal Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

33291 Metal Valve Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves: (1) industrial valves; (2) fluid power valves and hose fittings; (3) plumbing fixture fittings and trim; and (4) other metal valves and pipe fittings.

332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

332913 Plumbing Fixture Fitting and Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33299 All Other Fabricated Metal Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

332991 Ball and Roller Bearing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 Small arms ammunition

332993 Ammunition (Except Small Arms) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

332996 Fabricated Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating (such as cutting, threading and bending) metal pipes and pipe fittings made from purchased metal pipe.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 Industrial patterns

332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

The data published with NAICS code 332998 include the following SIC industry:

3431 Metal sanitary ware

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts, and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fire-place fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333 Machinery Manufacturing

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it

typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special-purpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, Mining and Oil and Gas Field Machinery Manufacturing.

33311 Agricultural Implement Manufacturing

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

333111 Farm Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

33312 Construction Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 Construction Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

33313 Mining and Oil and Gas Field Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks and (2) manufacturing water well drilling machinery.

The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

3332 Industrial Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, Other Industrial Machinery Manufacturing.

33321 Sawmill and Woodworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

333210 Sawmill and Woodworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking machinery

33322 Plastics and Rubber Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333220 Plastics and Rubber Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

33329 Other Industrial Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, type-setting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

333295 Semiconductor Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

33331 Commercial and Service Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and drycleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing coin, token, currency, or magnetic card operated vending machines and/or (2) manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

333313 Office Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mail-handling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

333314 Optical Instrument and Lens Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing optical instruments and lens, such as binoculars, microscopes (except electron, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

333315 Photographic and Photocopying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, digital projectors, film developing equipment, photocopying equipment, and microfilm equipment).

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

333319 Other Commercial and Service Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing ventilating, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

333411 Air Purification Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

333412 Industrial and Commercial Fan and Blower Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

333414 Heating Equipment (Except Warm Air Furnaces) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333415 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or (2) manufacturing commercial and industrial refrigeration and freezer equipment.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

33351 Metalworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

333511 Industrial Mold Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

333513 Machine Tool (Metal Forming Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging and die-casting machines.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333515 Cutting Tool and Machine Tool Accessory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

333516 Rolling Mill Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

333518 Other Metalworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

33361 Engine, Turbine, and Power Transmission Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive gasoline and aircraft).

333611 Turbine and Turbine Generator Set Units Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft); and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

333613 Mechanical Power Transmission Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, All Other General-Purpose Machinery Manufacturing.

33391 Pump and Compressor Manufacturing

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general-purpose air and gas compressors, nonagricultural spraying and dusting equipment, general-purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

333911 Pump and Pumping Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps and sump pumps.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

333912 Air and Gas Compressor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

333913 Measuring and Dispensing Pump Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

The data published with NAICS code 333913 include the following SIC industry:

3586 Measuring and dispensing pumps

33392 Material Handling Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

333921 Elevator and Moving Stairway Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

333922 Conveyor and Conveying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

333924 Industrial Truck, Tractor, Trailer, and Stackers Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type) such as forklifts, pallet loaders and unloaders, and portable loading docks.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33399 All Other General-Purpose Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

333991 Power-Driven Handtool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

333992 Welding and Soldering Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

333994 Industrial Process Furnace and Oven Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

333995 Fluid Power Cylinder and Actuator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333996 Fluid Power Pump and Motor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333996 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

333999 All Other Miscellaneous General-Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery;

engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

334 Computer and Electronic Product Manufacturing

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

3341 Computer and Peripheral Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

33411 Computer and Peripheral Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

334111 Electronic Computer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

334112 Computer Storage Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

334113 Computer Terminal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

334119 Other Computer Peripheral Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

3342 Communications Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, Other Communications Equipment Manufacturing.

33421 Telephone Apparatus Manufacturing

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

334210 Telephone Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

33429 Other Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

334290 Other Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

33431 Audio and Video Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

334310 Audio and Video Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

33441 Semiconductor and Other Electronic Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products

made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

334411 Electron Tube Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

334412 Bare Printed Circuit Board Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

334413 Semiconductor and Related Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells, and other optoelectronic devices.

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

334414 Electronic Capacitor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

334415 Electronic Resistor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors.

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

334416 Electronic Coil, Transformer, and Other Inductor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334417 Electronic Connector Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial, cylindrical, rack and panel, pin and sleeve, printed circuit and fiber optic.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334419 Other Electronic Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers and other inductors; connectors; and loaded printed circuit boards).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electro-medical laser products.

334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration and appliances.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display or control (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

334514 Totalizing Fluid Meter and Counting Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made

by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

334516 Analytical Laboratory Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

334517 Irradiation Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

334518 Watch, Clock, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334519 Other Measuring and Controlling Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical Media.

33461 Manufacturing and Reproducing Magnetic and Optical Media

This industry comprises establishments primarily engaged in (1) manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or (2) mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

334611 Software Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software; they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

334612 Prerecorded Compact Disc (Except Software), Tape, and Record Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

334613 Magnetic and Optical Recording Media Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

33511 Electric Lamp Bulb and Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335110 Electric Lamp Bulb and Part Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

33512 Lighting Fixture Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics) and lighting fixture components (except current-carrying wiring devices).

335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

The data published with NAICS code 335121 include the following SIC industries:

- 3089 Plastics products, n.e.c. (pt)
- 3645 Residential lighting fixtures
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

The data published with NAICS code 335122 include the following SIC industry:

- 3646 Commercial lighting fixtures

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

- 3648 Lighting equipment, n.e.c.
- 3699 Electrical equipment and supplies, n.e.c. (pt)

3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, Major Appliance Manufacturing.

33521 Small Electrical Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

The data published with NAICS code 335211 include the following SIC industry:

- 3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

The data published with NAICS code 335212 include the following SIC industries:

- 3635 Household vacuum cleaners
- 3639 Household appliances, n.e.c. (pt)

33522 Major Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

335221 Household Cooking Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

The data published with NAICS code 335221 include the following SIC industry:

- 3631 Household cooking equipment

335222 Household Refrigerator and Home Freezer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

3353 Electrical Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

33531 Electrical Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

335312 Motor and Generator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 Switchgear and switchboard apparatus

335314 Relay and Industrial Control Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 Battery Manufacturing

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

335911 Storage Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

33592 Communication and Energy Wire and Cable Manufacturing

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

335929 Other Communication and Energy Wire Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

33593 Wiring Device Manufacturing

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

335931 Current-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

335932 Noncurrent-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

The data published with NAICS code 335932 include the following SIC industry:

3644 Noncurrent-carrying wiring devices

33599 All Other Electrical Equipment and Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

335991 Carbon and Graphite Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and graphite products

335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

336 Transportation Equipment Manufacturing

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air, and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 Motor Vehicle Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or (2) manufacturing chassis only.

336111 Automobile Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete automobiles (i.e., body and chassis or unibody) or (2) manufacturing automobile chassis only.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

336112 Light Truck and Utility Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or (2) manufacturing light truck and utility vehicle chassis only. Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

33621 Motor Vehicle Body and Trailer Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing motor vehicle bodies and cabs or (2) manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies and detachable trailer chassis. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

336211 Motor Vehicle Body Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

336212 Truck Trailer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

336213 Motor Home Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing motor homes on purchased chassis and/or (2) manufacturing conversion vans on an assembly line basis. Motor homes are units where the motor and the living quarters are integrated in the same unit.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

336214 Travel Trailer and Camper Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing travel trailers and campers designed to attach to motor vehicles; (2) manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and (3) manufacturing automobile, utility, and light-truck trailers. Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

3363 Motor Vehicle Parts Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle gasoline engines and engine parts, whether or not for vehicular use.

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and valves

336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33632 Motor Vehicle Electrical and Electronic Equipment Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing vehicular lighting and/or (2) manufacturing and/or rebuilding motor vehicle electrical and electronic equipment. The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, ships).

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33633 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336330 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33634 Motor Vehicle Brake System Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336340 Motor Vehicle Brake System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

33635 Motor Vehicle Transmission and Power Train Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33636 Motor Vehicle Seating and Interior Trim Manufacturing

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336360 Motor Vehicle Seating and Interior Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33637 Motor Vehicle Metal Stamping

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336370 Motor Vehicle Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

33639 Other Motor Vehicle Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

336391 Motor Vehicle Air-Conditioning Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

336399 All Other Motor Vehicle Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3364 Aerospace Product and Parts Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

33641 Aerospace Product and Parts Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing complete aircraft, missiles, or space vehicles; (2) manufacturing aerospace engines, propulsion units, auxiliary equipment or parts; (3) developing and making prototypes of aerospace products; (4) aircraft conversion (i.e., major modifications to systems); and (5) complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336411 Aircraft Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing or assembling complete aircraft; (2) developing and making aircraft prototypes; (3) aircraft conversion (i.e., major modifications to systems); and (4) complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

336412 Aircraft Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing aircraft engines and engine parts; (2) developing and making prototypes of aircraft engines and engine parts; (3) aircraft propulsion system conversion (i.e., major modifications to systems); and (4) aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or (2) developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

336414 Guided Missile and Space Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete guided missiles and space vehicles and/or (2) developing and making prototypes of guided missile or space vehicles.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and space vehicles

336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or (2) developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and parts

336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or (2) developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

33651 Railroad Rolling Stock Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336510 Railroad Rolling Stock Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames, and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

33661 Ship and Boat Building

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

336612 Boat Building

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

3369 Other Transportation Equipment Manufacturing

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 Other Transportation Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 Motorcycle, Bicycle, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment and parts.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

336992 Military Armored Vehicle, Tank, and Tank Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

336999 All Other Transportation Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

337 Furniture and Related Product Manufacturing

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the

equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair, a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knock-down). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 Household and Institutional Furniture and Kitchen Cabinet Manufacturing

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen, and bedroom furniture, and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 Wood Kitchen Cabinet and Countertop Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337110 Wood Kitchen Cabinet and Countertop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood countertops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33712 Household and Institutional Furniture Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337121 Upholstered Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337122 Nonupholstered Wood Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337125 Household Furniture (Except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed,

rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

337127 Institutional Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

33721 Office Furniture (Including Fixtures) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

337212 Custom Architectural Woodwork and Millwork Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

337214 Office Furniture (Except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

2542 Partitions and fixtures, except wood

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or non-wood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3379 Other Furniture Related Product Manufacturing

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 Mattress Manufacturing

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 Mattress Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

33792 Blind and Shade Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 Blind and Shade Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

339 Miscellaneous Manufacturing

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 Medical Equipment and Supplies Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

33911 Medical Equipment and Supplies Manufacturing

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

339111 Laboratory Apparatus and Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339112 Surgical and Medical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electromedical, and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

339113 Surgical Appliance and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339114 Dental Equipment and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material.

The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

339115 Ophthalmic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, and reading glasses made to standard powers.

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

339116 Dental Laboratories

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

3399 Other Miscellaneous Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry; (2) manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and (3) stamping coins.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

339912 Silverware and Holloware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (2) cutting, slabbing, tumbling, carving, engraving, polishing or faceting precious or semiprecious stones and gems; (3) recutting, repolishing, and setting gem stones; and (4) drilling, sawing, and peeling cultured pearls.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing, engraving, chasing, and etching costume jewelry; and/or (2) manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases). This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

33992 Sporting and Athletic Goods Manufacturing

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 Sporting and Athletic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33993 Doll, Toy, and Game Manufacturing

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes, action figures, and stuffed toys.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include

establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33994 Office Supplies (Except Paper) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

339942 Lead Pencil and Art Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 Carbon paper and inked ribbons

33995 Sign Manufacturing

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

339950 Sign Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

33999 All Other Miscellaneous Manufacturing

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

339991 Gasket, Packing, and Sealing Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

339993 Fastener, Button, Needle, and Pin Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

3991 Brooms and brushes

339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

339999 All Other Miscellaneous Manufacturing

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical

equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

The data published with NAICS code 339999 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C.

Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these

establishments but were included in the product and material “not specified by kind” (nsc) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a four-digit SIC industry and then erroneously re-coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

- a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

A wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the nsk categories.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no “resistance rules” or “frozen industries.”

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry’s output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D.

Geographic Notes

TENNESSEE

Belle Meade. See “Nashville-Davidson (consolidated city).”

Chattanooga is in Hamilton and Marion Counties; it annexed into Marion County in April 1994.

Farragut is in Knox and Loudon Counties.

Forest Hills. See “Nashville-Davidson (consolidated city).”

Goodlettsville is in Davidson and Sumner Counties; see “Nashville-Davidson (consolidated city).”

Harriman is in Morgan and Roane Counties.

Humboldt is in Gibson and Madison Counties.

Johnson City is in Carter, Sullivan, and Washington Counties.

Kingsport is in Hawkins and Sullivan Counties.

McKenzie is in Carroll, Henry, and Weakley Counties.

Millersville is in Robertson and Sumner Counties.

Morristown is in Hamblen and Jefferson Counties; it annexed into Jefferson County in July 1995.

Nashville-Davidson (balance). See “Nashville-Davidson (consolidated city).”

Nashville-Davidson (consolidated city). The “Metropolitan Government of Nashville and Davidson County” is coextensive with Davidson County. It includes Belle Meade, Forest Hills, Goodlettsville (part in Davidson County), and Oak Hill, which are tabulated separately. “Nashville-Davidson (balance),” which is a place equivalent, includes Berry Hill, Lakewood, and Ridgetop (part in Davidson County), which are not populous enough for separate tabulation.

Oak Hill. See “Nashville-Davidson (consolidated city).”

Oak Ridge is in Anderson and Roane Counties.

Oliver Springs is in Anderson, Morgan, and Roane Counties.

Spring Hill is in Maury and Williamson Counties.

Sweetwater is in McMinn and Monroe Counties.

Tullahoma is in Coffee and Franklin Counties.

White House is in Robertson and Sumner Counties.

Appendix E. Metropolitan Areas

TENNESSEE

Chattanooga, TN—GA MSA

Catoosa County, GA
Dade County, GA
Walker County, GA
Hamilton County, TN
Marion County, TN

Clarksville—Hopkinsville, TN—KY MSA

Christian County, KY
Montgomery County, TN

Jackson, TN MSA

Chester County, TN
Madison County, TN

Johnson City—Kingsport—Bristol, TN—VA MSA

Carter County, TN
Hawkins County, TN
Sullivan County, TN
Unicoi County, TN
Washington County, TN
Scott County, VA
Washington County, VA
Bristol, VA (IC)

Knoxville, TN MSA

Anderson County, TN
Blount County, TN
Knox County, TN
Loudon County, TN
Sevier County, TN
Union County, TN

Memphis, TN—AR—MS MSA

Crittenden County, AR
DeSoto County, MS
Fayette County, TN
Shelby County, TN
Tipton County, TN

Nashville, TN MSA

Cheatham County, TN
Davidson County, TN
Dickson County, TN
Robertson County, TN
Rutherford County, TN
Sumner County, TN
Williamson County, TN
Wilson County, TN

