

# General Summary

# 1997

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## 1997 Economic Census

*Manufacturing*

Subject Series



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

*Helping You Make Informed Decisions*

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



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## 1997 Economic Census

### *Manufacturing*

### Summary Series



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# Introduction to the Economic Census

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## PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

## ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

## RELATIONSHIP TO SIC

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

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

## GEOGRAPHIC AREA CODING

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

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

## **BASIS OF REPORTING**

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

## **DOLLAR VALUES**

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

All dollar values are shown in thousands of dollars.

## **AVAILABILITY OF ADDITIONAL DATA**

### **Reports in Print and Electronic Media**

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

### **Special Tabulations**

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

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

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

## **HISTORICAL INFORMATION**

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

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

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

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

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

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## SOURCES FOR MORE INFORMATION

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

## ABBREVIATIONS AND SYMBOLS

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

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

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



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# Manufacturing

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## SCOPE

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

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

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

## GENERAL

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

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

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

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

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

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

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

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

## GEOGRAPHIC AREAS COVERED

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

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

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

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

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

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

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

## **COMPARABILITY OF THE 1992 AND 1997 CENSUSES**

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

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

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

## **DISCLOSURE**

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

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

## **AVAILABILITY OF MORE FREQUENT ECONOMIC DATA**

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

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

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

**Table 1–1a. Statistics for All Manufacturing Establishments: 1997 and Earlier Years**

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

Year <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added by manufacture <sup>3</sup> (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
1997	362 829	119 748	16 805 127	569 808 845	12 065 257	24 183 271	338 267 197	1 825 688 027	2 015 424 556	3 834 700 920	151 510 757
1996	N	N	17 326 300	560 518 300	12 167 800	25 010 500	324 495 800	1 749 661 900	1 975 362 100	3 715 428 200	146 467 500
1995	N	N	17 419 200	545 362 700	12 253 100	25 072 000	317 767 500	1 711 442 300	1 897 570 700	3 594 359 600	134 318 100
1994	N	N	17 059 400	522 565 700	11 947 100	24 560 100	304 663 000	1 605 980 000	1 752 735 100	3 348 019 200	118 664 700
1993	N	N	16 943 500	504 363 100	11 726 200	23 845 100	290 293 200	1 483 054 100	1 647 492 600	3 127 620 400	108 628 500
1992	370 912	118 967	16 948 900	494 108 900	11 640 900	23 563 100	281 538 200	1 424 699 700	1 571 773 500	3 004 722 800	110 643 800
1991	N	N	17 081 200	477 174 600	11 652 000	23 383 000	270 601 000	1 341 386 200	1 531 221 300	2 878 164 800	103 152 900
1990	N	N	17 796 200	480 223 500	12 232 700	24 463 300	275 208 400	1 346 970 100	1 574 617 300	2 912 228 500	106 462 800
1989	N	N	18 045 700	470 479 200	12 535 500	24 933 900	273 119 900	1 325 433 600	1 532 330 000	2 840 376 000	101 894 300
1988	N	N	17 989 600	453 309 400	12 438 700	24 815 400	265 147 100	1 269 313 000	1 444 500 900	2 695 432 300	84 706 100
1987	358 952	120 822	17 718 000	428 480 000	12 280 400	24 302 700	251 449 500	1 165 740 800	1 319 844 600	2 475 939 100	85 662 100
1986	N	N	17 086 800	402 466 700	11 765 400	23 178 200	236 599 400	1 035 437 400	1 217 608 600	2 260 314 600	80 795 100
1985	N	N	17 508 300	396 610 500	12 174 400	23 731 600	235 790 800	1 000 142 000	1 276 009 600	2 280 183 800	91 244 900
1984	N	N	17 854 900	384 921 500	12 572 800	24 637 100	231 783 900	983 227 700	1 288 413 600	2 253 429 300	80 659 900
1983	N	N	17 453 100	354 232 200	12 203 000	23 611 600	212 416 400	882 014 500	1 170 237 800	2 045 853 300	67 479 800
1982	348 385	117 959	17 818 100	341 406 200	12 400 600	23 538 300	204 787 200	824 117 700	1 130 142 700	1 960 205 800	77 045 700
1981	N	N	18 919 800	341 319 800	13 542 800	26 233 100	212 200 900	837 506 500	1 193 969 600	2 017 542 500	83 767 000
1980	N	N	19 311 400	316 494 500	13 900 100	26 745 700	198 164 000	773 831 300	1 093 567 600	1 852 668 300	74 624 600
1979	N	N	19 756 500	298 529 100	14 537 800	28 324 300	192 881 500	747 480 500	999 157 500	1 727 214 600	65 796 600
1978	N	N	19 239 400	271 540 900	14 228 700	27 676 500	176 416 800	657 412 000	877 424 700	1 522 937 300	58 346 000
1977	350 757	113 843	18 515 900	242 031 900	13 691 000	26 686 700	157 163 700	585 165 600	782 417 700	1 358 526 400	51 907 300

<sup>1</sup>Statistics presented for years ending in 7 and 2 are census data. Statistics for intervening years are from the Annual Survey of Manufactures (ASM). Also, data for 1997 are on the North American Industry Classification System (NAICS), while data for earlier years are on the Standard Industrial Classification (SIC) system. Differences between the 2 systems are presented in Tables 1–1b and 1–1c of this report.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Beginning in 1982, respondents were requested to report inventories at cost or market, prior to LIFO adjustment. In prior years, respondents were permitted to report inventories using any generally accepted accounting practice.

**Table 1–1b. Selected Industry Statistics for Manufacturing Establishments Not-In-Scope of Manufacturing in the 1987 SIC-Based Classification System: 1997**

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

NAICS code	SIC-based code	SIC-based description	All establishments <sup>1</sup>	All employees		Value of shipments (\$1,000)
				Number	Payroll	
		<b>Total</b> .....	<b>22 839</b>	<b>153 628</b>	<b>3 363 627</b>	<b>14 670 791</b>
311330	544110	Candy, nut, and confectionery stores (pt) .....	440	3 450	48 915	195 426
311340	544120	Candy, nut, and confectionery stores (pt) .....	349	1 278	16 210	92 142
311612	514706	Meat and meat products (pt) .....	189	3 562	105 856	1 815 012
311811	546111	Retail bakeries (pt) .....	7 119	43 603	568 243	1 946 153
313311	513105	Piece goods, notions, and other dry goods (pt) .....	559	7 526	261 011	1 755 733
313312	513110	Piece goods, notions, and other dry goods (pt) .....	—	—	—	—
314121	571401	Drapery, curtain, and upholstery stores (pt) .....	1 085	4 492	75 735	280 167
315999	569921	Miscellaneous apparel and accessory stores .....	724	2 407	41 935	152 641
326212	753420	Tire retreading and repair shops (pt) .....	750	7 855	189 995	970 615
334611	737991	Reproduction of software .....	123	7 868	302 863	1 209 207
334612	781980	Services allied to motion picture production (pt) .....	251	8 956	263 056	1 624 736
335312	769420	Armature rewinding shops (pt) .....	195	3 554	111 410	450 982
337110	571205	Furniture stores (pt) .....	2 055	9 893	198 646	665 553
337121	571210	Furniture stores (pt) .....	576	3 150	60 638	205 422
337122	571215	Furniture stores (pt) .....	815	4 880	95 480	323 428
339116	807200	Dental laboratories .....	7 609	41 154	1 023 634	2 983 574

<sup>1</sup>Includes establishments with payroll at any time during the year.

**Table 1-1c. Selected Industry Statistics for Nonmanufacturing Establishments In-Scope of Manufacturing in the 1987 SIC-Based Classification System: 1997**

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

NAICS code	SIC-based code	SIC-based description	All establishments <sup>1</sup>	All employees		Value of shipments (\$1,000)
				Number	Payroll	
		<b>Total .....</b>	<b>36 870</b>	<b>822 958</b>	<b>26 960 580</b>	<b>130 732 311</b>
113310	241100	Logging .....	13 533	83 212	2 014 254	13 625 734
511110	271100	Newspapers .....	8 773	400 818	11 729 887	41 433 090
511120	272100	Periodicals .....	6 331	137 865	5 997 490	29 972 538
511130	273110	Book publishing (pt) .....	2 689	90 170	3 655 695	22 676 105
511140	274110	Miscellaneous publishing (pt) .....	830	33 113	1 342 004	10 776 279
511191	277160	Greeting cards (pt) .....	111	21 047	644 046	5 395 087
511199	274120	Miscellaneous publishing (pt) .....	2 494	44 944	1 262 980	5 636 247
512230	273115	Music books: publishing or printing and publishing .....	259	1 765	52 144	300 570
512230	274102	Sheet music publishing .....	111	570	21 165	95 388
811490	373210	Boat repair .....	1 739	9 454	240 915	821 273

<sup>1</sup>Includes establishments with payroll at any time during the year.

**Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing .....</b>	<b>316 952</b>	<b>362 829</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
311	Food mfg .....	21 958	26 302	1 466 956	38 366 240	1 112 307	2 234 216	25 185 751	163 675 301	258 537 984	421 737 017	10 799 165
3111	Animal food mfg .....	1 077	1 696	46 651	1 478 617	30 138	62 625	845 669	8 779 741	18 991 516	27 732 347	548 373
31111	Animal food mfg .....	1 077	1 696	46 651	1 478 617	30 138	62 625	845 669	8 779 741	18 991 516	27 732 347	548 373
311111	Dog & cat food mfg .....	129	187	13 979	502 207	10 587	23 431	345 400	4 307 078	4 402 139	8 688 239	261 079
311119	Other animal food mfg ....	962	1 509	32 672	976 410	19 551	39 194	500 269	4 472 663	14 589 377	19 044 108	287 294
3112	Grain & oilseed milling .....	534	891	59 243	2 358 554	44 135	97 278	1 644 441	15 867 943	36 216 684	52 075 763	1 565 272
31121	Flour milling & malt mfg .....	324	483	17 877	618 434	13 185	28 430	410 382	2 689 069	8 462 546	11 141 876	283 188
311211	Flour milling .....	254	382	12 762	444 182	9 287	20 386	296 258	1 894 615	6 099 513	8 001 978	196 633
311212	Rice milling .....	56	67	3 805	118 318	2 986	6 277	80 451	587 737	1 810 862	2 364 582	45 454
311213	Malt mfg .....	19	34	1 310	55 934	912	1 767	33 673	206 717	552 171	775 316	41 101
31122	Starch & vegetable fats & oils mfg .....	179	337	26 970	1 022 051	19 142	42 829	653 109	6 622 646	25 190 746	31 835 054	981 833
311221	Wet corn milling .....	30	58	9 217	422 533	6 372	14 726	274 677	3 071 056	5 361 443	8 455 172	400 906
311222	Soybean processing .....	43	92	6 601	229 727	4 560	10 207	140 346	1 623 082	12 449 318	14 036 271	188 422
311223	Other oilseed processing ..	32	54	2 667	73 451	1 949	4 474	45 528	246 561	1 419 419	1 720 738	83 999
311225	Fats & oils refining & blending .....	91	133	8 485	296 340	6 261	13 422	192 558	1 681 947	5 960 566	7 622 873	168 506
31123	Breakfast cereal mfg .....	48	71	14 396	718 069	11 808	26 019	580 950	6 556 228	2 563 392	9 098 833	300 251
311230	Breakfast cereal mfg .....	48	71	14 396	718 069	11 808	26 019	580 950	6 556 228	2 563 392	9 098 833	300 251
3113	Sugar & confectionery product mfg .....	1 556	1 741	84 876	2 560 362	67 211	135 962	1 768 465	11 876 056	12 370 300	24 114 454	831 995
31131	Sugar mfg .....	49	92	16 547	611 488	12 869	29 934	438 761	2 156 119	5 318 013	7 399 171	279 835
311311	Sugarcane mills .....	34	38	4 938	167 589	3 362	8 768	109 506	647 496	872 054	1 457 482	67 796
311312	Cane sugar refining .....	12	18	3 891	191 663	2 823	6 833	126 215	540 141	2 677 639	3 209 186	44 528
311313	Beet sugar mfg .....	8	36	7 718	252 236	6 684	14 333	203 040	968 482	1 768 320	2 732 503	167 511
31132	Chocolate & confectionery mfg from cacao beans .....	152	163	9 946	383 045	7 350	14 366	248 383	1 821 177	1 925 201	3 755 268	69 718
311320	Chocolate & confectionery mfg from cacao beans ...	152	163	9 946	383 045	7 350	14 366	248 383	1 821 177	1 925 201	3 755 268	69 718
31133	Confectionery mfg from purchased chocolate .....	796	861	32 871	856 440	26 670	52 257	605 617	4 815 479	3 126 892	7 879 752	272 269
311330	Confectionery mfg from purchased chocolate .....	796	861	32 871	856 440	26 670	52 257	605 617	4 815 479	3 126 892	7 879 752	272 269
31134	Nonchocolate confectionery mfg .....	578	625	25 512	709 389	20 322	39 405	475 704	3 083 281	2 000 194	5 080 263	210 173
311340	Nonchocolate confectionery mfg .....	578	625	25 512	709 389	20 322	39 405	475 704	3 083 281	2 000 194	5 080 263	210 173
3114	Fruit & vegetable preserving & specialty food mfg .....	1 394	1 780	191 576	4 884 327	160 480	316 216	3 537 478	23 360 633	23 223 370	46 618 107	1 648 372
31141	Frozen food mfg .....	531	666	94 192	2 192 511	80 207	154 464	1 596 889	9 876 210	9 772 579	19 691 664	751 288
311411	Frozen fruit, juice, & vegetable mfg .....	177	255	46 295	1 047 390	40 130	77 362	790 742	4 507 930	4 995 138	9 549 256	397 733
311412	Frozen specialty food mfg ..	363	411	47 897	1 145 121	40 077	77 102	806 147	5 368 280	4 777 441	10 142 408	353 555
31142	Fruit & vegetable canning, pickling, & drying .....	887	1 114	97 384	2 691 816	80 273	161 752	1 940 589	13 484 423	13 450 791	26 926 443	897 084
311421	Fruit & vegetable canning ..	661	820	63 612	1 709 578	52 561	105 423	1 230 906	6 940 605	8 877 038	15 801 279	529 704
311422	Specialty canning .....	122	139	19 157	602 615	15 880	33 399	456 780	5 185 647	2 864 243	8 051 059	219 783
311423	Dried & dehydrated food mfg .....	125	155	14 615	379 623	11 832	22 930	252 903	1 358 171	1 709 510	3 074 105	147 597

See footnotes at end of table.

**Table 1–1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
311	Food mfg—Con.											
3115	Dairy product mfg .....	1 329	1 830	131 868	4 139 799	84 607	179 038	2 409 530	17 621 758	41 061 093	58 670 293	1 337 286
31151	Dairy product (except frozen) mfg .....	948	1 381	112 082	3 533 105	70 363	148 903	2 018 627	15 071 625	37 748 615	52 812 384	1 179 399
311511	Fluid milk mfg .....	402	608	57 638	1 897 820	30 017	64 775	931 111	6 284 684	15 718 803	21 995 148	423 487
311512	Creamery butter mfg .....	32	34	1 827	56 524	1 138	2 377	32 564	241 876	1 133 899	1 367 548	8 522
311513	Cheese mfg .....	399	524	36 543	1 005 266	29 019	59 587	744 368	4 376 509	15 858 773	20 232 146	478 340
311514	Dry, condensed, & evaporated dairy product mfg .....	169	215	16 074	573 495	10 189	22 164	310 584	4 168 556	5 037 140	9 217 542	269 050
31152	Ice cream & frozen dessert mfg .....	409	449	19 786	606 694	14 244	30 135	390 903	2 550 133	3 312 478	5 857 909	157 887
311520	Ice cream & frozen dessert mfg .....	409	449	19 786	606 694	14 244	30 135	390 903	2 550 133	3 312 478	5 857 909	157 887
3116	Meat product mfg .....	2 794	3 397	464 991	9 917 710	397 935	818 777	7 577 675	30 172 670	82 899 684	112 979 006	1 799 220
31161	Animal slaughtering & processing .....	2 794	3 397	464 991	9 917 710	397 935	818 777	7 577 675	30 172 670	82 899 684	112 979 006	1 799 220
311611	Animal (except poultry) slaughtering .....	1 307	1 391	141 882	3 245 551	121 122	265 166	2 524 092	8 589 698	45 718 375	54 284 253	533 909
311612	Meat processed from carcasses .....	1 163	1 295	90 002	2 347 336	72 029	145 714	1 591 598	8 242 526	15 995 769	24 260 511	526 880
311613	Rendering & meat byproduct processing .....	137	239	8 798	268 952	5 033	10 572	128 710	1 254 647	1 311 993	2 556 547	114 353
311615	Poultry processing .....	257	472	224 309	4 055 871	199 751	397 325	3 333 275	12 085 799	19 873 547	31 877 695	624 078
3117	Seafood product preparation & packaging .....	731	839	40 763	886 350	33 483	63 231	605 813	2 512 047	4 412 177	6 919 210	175 210
31171	Seafood product preparation & packaging .....	731	839	40 763	886 350	33 483	63 231	605 813	2 512 047	4 412 177	6 919 210	175 210
311711	Seafood canning .....	152	166	5 371	121 870	4 253	7 645	73 888	330 603	533 089	862 118	21 599
311712	Fresh & frozen seafood processing .....	586	673	35 392	764 480	29 230	55 586	531 925	2 181 444	3 879 088	6 057 092	153 611
3118	Bakeries & tortilla mfg .....	10 437	11 246	298 300	7 802 377	185 122	345 366	4 252 293	27 160 518	16 561 544	43 722 668	1 440 509
31181	Bread & bakery product mfg .....	9 489	10 119	222 596	5 582 806	126 668	228 769	2 745 715	16 631 875	9 313 748	25 953 070	889 114
311811	Retail bakeries .....	6 906	7 119	43 603	568 243	26 845	34 286	298 911	1 227 763	1 716 938	1 946 153	75 760
311812	Commercial bakeries .....	2 401	2 764	164 033	4 624 748	87 616	170 173	2 171 895	14 036 766	7 453 210	21 494 992	724 834
311813	Frozen cakes, pies, & other pastries mfg .....	223	236	14 960	389 815	12 207	24 310	274 909	1 367 346	1 143 600	2 511 925	88 520
31182	Cookie, cracker, & pasta mfg .....	767	893	64 401	2 002 867	49 541	100 370	1 358 168	9 907 805	6 757 226	16 656 299	502 084
311821	Cookie & cracker mfg .....	322	378	42 804	1 343 993	32 912	65 151	920 690	6 366 872	3 518 363	9 889 921	300 040
311822	Flour mixes & dough mfg from purchased flour .....	206	249	15 534	484 414	11 963	25 851	321 649	2 495 635	2 523 023	4 999 850	158 993
311823	Dry pasta mfg .....	249	266	6 063	174 460	4 666	9 368	115 829	1 045 298	715 840	1 766 528	43 051
31183	Tortilla mfg .....	217	234	11 303	216 704	8 913	16 227	148 400	620 838	490 570	1 113 299	49 311
311830	Tortilla mfg .....	217	234	11 303	216 704	8 913	16 227	148 400	620 838	490 570	1 113 299	49 311
3119	Other food mfg .....	2 493	2 882	148 688	4 338 144	109 196	215 723	2 544 397	26 323 935	22 801 616	48 905 169	1 452 928
31191	Snack food mfg .....	466	559	46 609	1 368 683	35 412	72 675	812 972	7 483 020	6 174 737	13 590 607	488 371
311911	Roasted nuts & peanut butter mfg .....	128	144	10 128	265 104	7 607	16 296	168 424	1 574 476	2 385 886	3 933 112	81 964
311919	Other snack food mfg .....	340	415	36 481	1 103 579	27 805	56 379	644 548	5 908 544	3 788 851	9 657 495	406 407
31192	Coffee & tea mfg .....	215	247	12 895	445 357	8 134	16 538	254 555	3 644 653	4 401 171	7 974 921	166 837
311920	Coffee & tea mfg .....	215	247	12 895	445 357	8 134	16 538	254 555	3 644 653	4 401 171	7 974 921	166 837
31193	Flavoring syrup & concentrate mfg .....	149	175	6 243	225 770	3 348	6 839	111 627	4 945 331	1 648 212	6 590 816	144 097
311930	Flavoring syrup & concentrate mfg .....	149	175	6 243	225 770	3 348	6 839	111 627	4 945 331	1 648 212	6 590 816	144 097
31194	Seasoning & dressing mfg .....	525	602	26 055	897 346	17 892	34 911	491 155	5 108 356	4 990 907	10 027 200	255 077
311941	Mayonnaise, dressing, & other prepared sauce mfg .....	293	328	13 927	443 903	10 448	20 212	286 515	2 945 653	2 860 124	5 810 040	139 688
311942	Spice & extract mfg .....	241	274	12 128	453 443	7 444	14 699	204 640	2 162 703	2 130 783	4 217 160	115 389
31199	All other food mfg .....	1 197	1 299	56 886	1 400 988	44 410	84 760	874 088	5 142 575	5 586 589	10 721 625	398 546
311991	Perishable prepared food mfg .....	415	443	20 732	461 355	15 720	29 808	272 127	1 394 441	1 349 973	2 730 103	124 442
311999	All other miscellaneous food mfg .....	785	856	36 154	939 633	28 690	54 952	601 961	3 748 134	4 236 616	7 991 522	274 104
312	Beverage & tobacco product mfg .....	2 237	2 727	175 711	6 735 295	98 389	196 693	3 554 784	56 433 891	41 276 110	96 971 368	3 100 543
3121	Beverage mfg .....	2 169	2 622	142 117	5 139 203	73 948	148 771	2 518 681	29 743 502	31 824 907	60 896 055	2 381 973
31211	Soft drink & ice mfg .....	1 008	1 346	83 256	2 627 979	36 580	79 450	1 042 932	13 131 224	19 480 621	32 587 038	913 319
312111	Soft drink mfg .....	388	614	73 343	2 377 922	31 712	69 764	930 608	12 422 141	18 979 093	31 376 263	832 284
312112	Bottled water mfg .....	109	151	4 661	132 426	1 961	3 714	57 471	412 997	373 757	785 869	47 508
312113	Ice mfg .....	514	581	5 252	117 631	2 907	5 972	54 853	296 086	127 771	424 906	33 527
31212	Breweries .....	494	529	34 251	1 598 573	24 205	43 800	1 083 121	11 234 126	6 967 213	18 203 492	1 021 428
312120	Breweries .....	494	529	34 251	1 598 573	24 205	43 800	1 083 121	11 234 126	6 967 213	18 203 492	1 021 428
31213	Wineries .....	637	687	18 193	668 051	8 572	15 784	238 543	3 161 416	3 663 761	6 194 564	371 286
312130	Wineries .....	637	687	18 193	668 051	8 572	15 784	238 543	3 161 416	3 663 761	6 194 564	371 286
31214	Distilleries .....	44	60	6 417	244 600	4 591	9 737	154 085	2 216 736	1 713 312	3 910 961	75 940
312140	Distilleries .....	44	60	6 417	244 600	4 591	9 737	154 085	2 216 736	1 713 312	3 910 961	75 940
3122	Tobacco mfg .....	70	105	33 594	1 596 092	24 441	47 922	1 036 103	26 690 389	9 451 203	36 075 313	718 570
31221	Tobacco stemming & redrying .....	13	24	4 955	112 571	3 590	7 470	62 221	619 176	2 715 622	3 263 376	26 637
312210	Tobacco stemming & redrying .....	13	24	4 955	112 571	3 590	7 470	62 221	619 176	2 715 622	3 263 376	26 637
31222	Tobacco product mfg .....	63	81	28 639	1 483 521	20 851	40 452	973 882	26 071 213	6 735 581	32 811 937	691 933
312221	Cigarette mfg .....	9	13	21 302	1 246 557	15 096	28 887	816 131	23 338 692	5 901 854	29 252 787	622 688
312229	Other tobacco product mfg .....	56	68	7 337	236 964	5 755	11 565	157 751	2 732 521	833 727	3 559 150	69 245

See footnotes at end of table.

**Table 1–1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Com-panies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
313	Textile mills .....	3 863	4 694	391 899	10 058 482	332 385	695 900	7 439 112	23 696 948	34 876 899	58 707 401	2 691 704
3131	Fiber, yarn, & thread mills .....	358	592	82 291	1 891 178	73 973	156 214	1 561 517	4 202 226	8 634 866	12 896 617	537 037
31311	Fiber, yarn, & thread mills .....	358	592	82 291	1 891 178	73 973	156 214	1 561 517	4 202 226	8 634 866	12 896 617	537 037
313111	Yarn spinning mills .....	229	408	58 440	1 334 129	52 720	112 451	1 126 224	2 964 156	5 138 206	8 143 185	432 027
313112	Yarn texturing, throwing, & twisting mills .....											
313113	Thread mills .....	101	135	20 256	478 414	18 044	36 910	374 482	1 096 088	3 115 899	4 231 500	86 329
		44	49	3 595	78 635	3 209	6 853	60 811	141 982	380 761	521 932	18 681
3132	Fabric mills .....	1 796	2 124	217 354	5 613 779	184 433	384 185	4 201 818	12 598 396	17 302 351	29 979 595	1 491 377
31321	Broadwoven fabric mills .....	734	909	132 797	3 434 157	115 792	242 614	2 729 638	7 505 926	10 661 154	18 269 155	894 514
313210	Broadwoven fabric mills .....	734	909	132 797	3 434 157	115 792	242 614	2 729 638	7 505 926	10 661 154	18 269 155	894 514
31322	Narrow fabric mills & schiffli machine embroidery .....	478	511	20 215	445 118	16 700	34 314	306 262	949 913	696 805	1 645 969	77 104
313221	Narrow fabric mills .....	243	274	16 366	368 459	13 468	27 815	251 828	786 758	623 775	1 409 967	71 807
313222	Schiffli machine embroidery .....	235	237	3 849	76 659	3 232	6 499	54 434	163 155	73 030	236 002	5 297
31323	Nonwoven fabric mills .....	212	252	21 162	693 101	15 867	33 228	428 568	1 751 967	2 645 508	4 367 765	301 194
313230	Nonwoven fabric mills .....	212	252	21 162	693 101	15 867	33 228	428 568	1 751 967	2 645 508	4 367 765	301 194
31324	Knit fabric mills .....	407	452	43 180	1 041 403	36 074	74 029	737 350	2 390 590	3 298 884	5 696 706	218 565
313241	Weft knit fabric mills .....	236	255	24 535	570 908	20 567	41 830	404 579	1 150 044	1 915 271	3 070 633	105 808
313249	Other knit fabric & lace mills .....	181	197	18 645	470 495	15 507	32 199	332 771	1 240 546	1 383 613	2 626 073	112 757
3133	Textile & fabric finishing & fabric coating mills .....	1 827	1 978	92 254	2 553 525	73 979	155 501	1 675 777	6 896 326	8 939 682	15 831 189	663 290
31331	Textile & fabric finishing mills .....	1 589	1 719	80 722	2 167 370	65 739	138 706	1 452 456	6 006 310	7 693 568	13 697 712	589 359
313311	Broadwoven fabric finishing mills .....	1 255	1 337	51 447	1 424 212	41 057	86 709	947 744	4 032 378	5 242 184	9 294 623	311 220
313312	Textile & fabric finishing mills .....	346	382	29 275	743 158	24 682	51 997	504 712	1 973 932	2 451 384	4 403 089	278 139
31332	Fabric coating mills .....	246	259	11 532	386 155	8 240	16 795	223 321	890 016	1 246 114	2 133 477	73 931
313320	Fabric coating mills .....	246	259	11 532	386 155	8 240	16 795	223 321	890 016	1 246 114	2 133 477	73 931
314	Textile product mills .....	7 516	7 899	235 441	5 088 653	189 082	366 775	3 410 873	13 613 111	17 671 553	31 051 835	718 728
3141	Textile furnishings mills .....	3 080	3 316	126 041	2 750 812	102 465	207 865	1 918 311	8 588 430	11 896 997	20 296 040	356 404
31411	Carpet & rug mills .....	413	472	51 624	1 320 268	40 692	89 056	920 979	4 513 421	7 022 584	11 492 786	208 413
314110	Carpet & rug mills .....	413	472	51 624	1 320 268	40 692	89 056	920 979	4 513 421	7 022 584	11 492 786	208 413
31412	Curtain & linen mills .....	2 670	2 844	74 417	1 430 544	61 773	118 809	997 332	4 075 009	4 874 413	8 803 254	147 991
314121	Curtain & drapery mills .....	2 012	2 081	25 384	450 504	19 759	35 605	274 414	943 162	921 664	1 852 089	32 690
314129	Other household textile product mills .....	668	763	49 033	980 040	42 014	83 204	722 918	3 131 847	3 952 749	6 951 165	115 301
3149	Other textile product mills .....	4 455	4 583	109 400	2 337 841	86 617	158 910	1 492 562	5 024 681	5 774 556	10 755 795	362 324
31491	Textile bag & canvas mills .....	2 094	2 123	32 781	667 725	25 892	46 094	400 079	1 307 070	1 209 238	2 502 064	63 526
314911	Textile bag mills .....	423	435	14 089	253 570	11 850	21 872	160 441	497 914	486 225	972 920	19 034
314912	Canvas & related product mills .....	1 673	1 688	18 692	414 155	14 042	24 222	239 638	809 156	723 013	1 529 144	44 492
31499	All other textile product mills .....	2 366	2 460	76 619	1 670 116	60 725	112 816	1 092 483	3 717 611	4 565 318	8 253 731	298 798
314991	Rope, cordage, & twine mills .....	189	201	6 417	159 268	4 866	9 711	94 903	377 878	411 187	777 091	25 018
314992	Tire cord & tire fabric mills .....	15	21	5 192	155 683	4 296	9 044	113 322	414 831	857 855	1 268 662	67 251
314999	All other miscellaneous textile product mills .....	2 164	2 238	65 010	1 355 165	51 563	94 061	884 258	2 924 902	3 296 276	6 207 978	206 529
315	Apparel mfg .....	15 839	16 989	710 796	12 582 352	592 290	1 060 314	8 799 442	33 780 193	34 683 500	68 018 116	941 178
3151	Apparel knitting mills .....	1 209	1 318	99 901	1 933 113	88 043	170 420	1 511 480	4 630 556	4 945 443	9 600 569	238 122
31511	Hosiery & sock mills .....	532	590	52 806	982 923	46 944	91 038	780 166	2 196 914	2 360 677	4 562 009	129 522
315111	Sheer hosiery mills .....	136	154	17 798	349 890	15 869	31 512	277 937	797 444	845 433	1 658 474	37 397
315119	Other hosiery & sock mills .....	399	436	35 008	633 033	31 075	59 526	502 229	1 399 470	1 515 244	2 903 535	92 125
31519	Other apparel knitting mills .....	683	728	47 095	950 190	41 099	79 382	731 314	2 433 642	2 584 766	5 038 560	108 600
315191	Outerwear knitting mills .....	645	672	40 154	819 788	35 185	68 204	632 965	2 054 507	2 273 005	4 352 532	90 355
315192	Underwear & nightwear knitting mills .....	43	56	6 941	130 402	5 914	11 178	98 349	379 135	311 761	686 028	18 245
3152	Cut & sew apparel mfg .....	12 487	13 354	558 328	9 625 941	462 317	814 228	6 648 642	26 800 066	27 518 916	53 851 513	629 588
31521	Cut & sew apparel contractors .....	7 677	7 841	197 863	2 572 447	177 519	295 376	2 130 859	4 439 438	1 117 706	5 536 959	142 103
315211	Men's & boys' cut & sew apparel contractors .....	636	715	50 444	693 666	45 469	78 723	578 662	1 241 538	271 017	1 534 022	30 187
315212	Women's, girls', & infants' cut & sew apparel contractors .....	7 056	7 126	147 419	1 878 781	132 050	216 653	1 552 197	3 197 900	846 689	4 002 937	111 916
31522	Men's & boys' cut & sew apparel mfg .....	1 362	1 734	177 527	3 098 512	152 390	276 728	2 325 800	10 513 890	11 007 933	21 298 782	209 392
315221	Men's & boys' cut & sew underwear & nightwear mfg .....	62	74	9 759	162 485	8 803	15 864	133 370	815 424	603 497	1 404 202	7 804
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	193	221	21 948	460 838	17 750	33 325	321 771	1 110 598	1 020 622	2 082 863	16 227
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	387	483	52 648	938 927	44 789	80 887	699 713	3 306 989	3 639 576	6 916 178	62 023
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	199	270	45 219	775 607	40 507	74 012	624 538	3 392 475	3 841 987	7 152 379	52 313
315225	Men's & boys' cut & sew work clothing mfg .....	149	211	23 306	346 801	19 835	34 421	252 193	999 393	899 411	1 865 304	29 670
315228	Men's & boys' cut & sew other outerwear mfg .....	430	475	24 647	413 854	20 706	38 219	294 215	889 011	1 002 840	1 877 856	41 355

See footnotes at end of table.

**Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
315	Apparel mfg—Con.											
3152	Cut & sew apparel mfg—Con.											
31523	Women's & girls' cut & sew apparel mfg .....	2 927	3 091	157 739	3 490 513	112 449	205 150	1 899 696	10 670 675	14 351 608	24 832 784	250 071
315231	Women's & girls' cut/sew lingerie & nightwear mfg .	249	284	26 081	451 917	20 491	39 144	306 652	1 705 803	2 138 835	3 910 357	21 456
315232	Women's & girls' cut & sew blouse & shirt mfg .....	714	727	26 201	554 072	19 217	33 034	302 185	1 667 037	2 392 071	3 995 123	31 317
315233	Women's & girls' cut & sew dress mfg .....	747	772	28 280	711 042	17 618	31 231	348 008	2 011 924	3 058 502	5 009 262	41 826
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	428	438	20 324	528 734	12 946	23 190	246 832	1 656 257	2 182 131	3 759 250	22 238
315239	Women's & girls' cut & sew other outerwear mfg .....	818	870	56 853	1 244 748	42 177	78 551	696 019	3 629 654	4 580 069	8 158 792	133 234
31529	Other cut & sew apparel mfg .....	665	688	25 199	464 469	19 959	36 974	292 287	1 176 063	1 041 669	2 182 988	28 022
315291	Infants' cut & sew apparel mfg .....	39	53	9 457	152 721	7 879	15 425	112 899	487 099	457 862	945 119	7 612
315292	Fur & leather apparel mfg .	224	224	2 132	45 928	1 606	2 977	27 345	115 965	129 663	244 687	3 412
315299	All other cut & sew apparel mfg .....	402	411	13 610	265 820	10 474	18 572	152 043	572 999	454 144	993 182	16 998
3159	Apparel accessories & other apparel mfg .....	2 201	2 317	52 567	1 023 298	41 930	75 666	639 320	2 349 571	2 219 141	4 566 034	73 468
31599	Apparel accessories & other apparel mfg .....	2 201	2 317	52 567	1 023 298	41 930	75 666	639 320	2 349 571	2 219 141	4 566 034	73 468
315991	Hat, cap, & millinery mfg .	363	390	17 237	303 495	14 090	25 539	214 402	570 346	404 686	980 704	18 687
315992	Glove & mitten mfg .....	98	131	6 412	119 679	5 308	9 837	79 297	337 930	335 609	672 639	7 684
315993	Men's & boys' neckwear mfg .....	119	124	4 936	117 274	3 820	6 883	61 907	330 533	270 002	598 457	3 623
315999	Other apparel accessories & other apparel mfg .....	1 626	1 672	23 982	482 850	18 712	33 407	283 714	1 110 762	1 208 844	2 314 234	43 474
316	Leather & allied product mfg .....	1 727	1 861	85 115	1 832 341	68 733	133 908	1 185 870	5 407 999	5 480 529	10 876 510	167 254
3161	Leather & hide tanning & finishing .....	327	357	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	63 089
31611	Leather & hide tanning & finishing .....	327	357	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	63 089
316110	Leather & hide tanning & finishing .....	327	357	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	63 089
3162	Footwear mfg .....	366	427	41 744	827 526	34 669	66 707	542 243	2 219 507	2 018 550	4 210 975	53 912
31621	Footwear mfg .....	366	427	41 744	827 526	34 669	66 707	542 243	2 219 507	2 018 550	4 210 975	53 912
316211	Rubber & plastics footwear mfg .....	50	59	8 292	168 185	6 890	14 467	119 135	519 953	498 663	1 009 838	19 850
316212	House slipper mfg .....	22	25	2 501	51 471	1 960	4 303	30 799	147 572	125 482	263 816	2 247
316213	Men's footwear (except athletic) mfg .....	123	146	17 182	367 831	14 088	25 767	236 591	1 065 698	974 259	2 019 647	22 764
316214	Women's footwear (except athletic) mfg .....	97	108	10 442	183 020	8 905	16 988	114 011	373 803	322 851	703 653	5 162
316219	Other footwear mfg .....	87	89	3 327	57 019	2 826	5 182	41 707	112 481	97 295	214 021	3 889
3169	Other leather & allied product mfg .....	1 045	1 077	28 473	596 043	21 716	42 334	340 450	1 815 596	1 269 131	3 088 878	50 253
31699	Other leather & allied product mfg .....	1 045	1 077	28 473	596 043	21 716	42 334	340 450	1 815 596	1 269 131	3 088 878	50 253
316991	Luggage mfg .....	270	278	9 550	219 951	6 958	13 571	115 006	858 991	568 128	1 425 871	18 943
316992	Women's handbag & purse mfg .....	136	137	3 492	78 998	2 726	5 380	46 073	162 276	126 201	287 341	4 415
316993	Personal leather good (except women's handbag & purse) mfg .....	178	180	5 215	109 840	3 837	7 722	57 729	279 219	182 618	465 206	6 357
316999	All other leather good mfg .	464	482	10 216	187 254	8 195	15 661	121 642	515 110	392 184	910 460	20 538
321	Wood product mfg .....	15 621	17 367	570 034	14 319 193	476 225	948 438	10 567 993	33 493 004	55 299 641	88 470 180	2 869 234
3211	Sawmills & wood preservation .	4 372	4 841	130 935	3 478 548	111 962	230 740	2 717 104	9 481 550	19 789 802	29 093 601	1 161 016
32111	Sawmills & wood preservation .....	4 372	4 841	130 935	3 478 548	111 962	230 740	2 717 104	9 481 550	19 789 802	29 093 601	1 161 016
321113	Sawmills .....	4 024	4 390	119 267	3 180 425	102 788	212 176	2 527 290	8 521 097	16 227 066	24 632 080	1 079 446
321114	Wood preservation .....	361	451	11 668	298 123	9 174	18 564	189 814	960 453	3 562 736	4 461 521	81 570
3212	Veneer, plywood, & engineered wood product mfg .....	1 491	1 841	113 085	3 155 921	94 202	200 835	2 350 065	7 208 798	11 673 718	18 815 394	762 558
32121	Veneer, plywood, & engineered wood product mfg .....	1 491	1 841	113 085	3 155 921	94 202	200 835	2 350 065	7 208 798	11 673 718	18 815 394	762 558
321211	Hardwood veneer & plywood mfg .....	303	331	22 029	523 831	19 220	39 449	389 234	1 121 661	1 751 522	2 861 556	71 305
321212	Softwood veneer & plywood mfg .....	88	154	28 435	895 756	25 747	59 494	776 233	1 713 341	3 950 877	5 658 347	163 510
321213	Engineered wood member (except truss) mfg .....	32	53	5 372	154 564	4 469	9 701	118 939	476 346	974 548	1 431 123	53 742
321214	Truss mfg .....	886	987	32 069	784 839	24 266	47 270	470 967	1 584 826	2 032 748	3 610 943	84 398
321219	Reconstituted wood product mfg .....	212	316	25 180	796 931	20 500	44 921	594 692	2 312 624	2 964 023	5 253 425	389 603
3219	Other wood product mfg .....	9 923	10 685	326 014	7 684 724	270 061	516 863	5 500 824	16 802 656	23 836 121	40 561 185	945 660
32191	Millwork .....	3 985	4 261	140 506	3 434 757	116 828	229 267	2 528 265	7 463 664	11 631 811	19 040 942	469 484
321911	Wood window & door mfg .	1 311	1 406	63 806	1 702 872	51 706	102 542	1 229 286	3 687 713	4 970 743	8 673 423	204 866
321912	Cut stock, resawing lumber, & planing .....	1 296	1 391	39 205	878 081	33 921	66 395	675 578	1 940 712	4 010 533	5 925 115	160 314
321918	Other millwork (including flooring) .....	1 416	1 464	37 495	853 804	31 201	60 330	623 401	1 835 239	2 650 535	4 442 404	104 304
32192	Wood container & pallet mfg .	2 870	2 991	51 173	971 865	43 071	79 058	689 861	1 999 828	2 495 045	4 489 070	129 873
321920	Wood container & pallet mfg .....	2 870	2 991	51 173	971 865	43 071	79 058	689 861	1 999 828	2 495 045	4 489 070	129 873

See footnotes at end of table.



Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997—Con.

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expenditures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
321	Wood product mfg—Con.											
3219	Other wood product mfg—Con.											
32199	All other wood product mfg ..	3 103	3 433	134 335	3 278 102	110 162	208 538	2 282 698	7 339 164	9 709 265	17 031 173	346 303
321991	Manufactured home (mobile home) mfg .....	145	320	67 470	1 771 302	57 000	108 090	1 270 023	4 009 319	6 081 981	10 085 615	140 948
321992	Prefabricated wood building mfg .....	652	706	23 187	592 344	16 790	32 723	348 024	1 274 863	1 752 312	3 028 520	55 497
321999	All other miscellaneous wood product mfg .....	2 309	2 407	43 678	914 456	36 372	67 725	664 651	2 054 982	1 874 972	3 917 038	149 858
322	Paper mfg .....	3 808	5 868	574 274	22 311 971	440 096	935 795	15 187 973	70 300 235	80 189 518	150 295 890	8 595 133
3221	Pulp, paper, & paperboard mills .....	217	546	201 540	10 001 730	156 546	342 376	7 216 702	35 230 199	36 334 352	71 539 224	5 727 647
32211	Pulp mills .....	24	36	8 048	417 689	6 084	12 915	295 393	1 507 468	1 694 648	3 263 973	344 652
322110	Pulp mills .....	24	36	8 048	417 689	6 084	12 915	295 393	1 507 468	1 694 648	3 263 973	344 652
32212	Paper mills .....	139	296	138 985	6 915 579	108 622	236 354	5 007 106	24 681 603	23 540 735	48 161 554	3 768 677
322121	Paper (except newsprint) mills .....	121	267	125 935	6 197 015	98 577	214 510	4 483 213	22 128 898	20 914 676	42 966 163	3 404 261
322122	Newsprint mills .....	24	29	13 050	718 564	10 045	21 844	523 893	2 552 705	2 626 059	5 195 391	364 416
32213	Paperboard mills .....	81	214	54 507	2 668 462	41 840	93 107	1 914 203	9 041 128	11 098 969	20 113 697	1 614 318
322130	Paperboard mills .....	81	214	54 507	2 668 462	41 840	93 107	1 914 203	9 041 128	11 098 969	20 113 697	1 614 318
3222	Converted paper product mfg ..	3 674	5 322	372 734	12 310 241	283 550	593 419	7 971 271	35 070 036	43 855 166	78 756 666	2 867 486
32221	Paperboard container mfg .....	1 705	2 834	207 346	6 939 598	158 183	332 734	4 459 052	16 169 581	23 837 340	39 973 012	1 566 678
322211	Corrugated & solid fiber box mfg .....	995	1 733	124 641	4 260 630	91 401	190 936	2 576 043	9 627 993	15 950 040	25 555 136	966 285
322212	Folding paperboard box mfg .....	434	582	50 465	1 745 178	40 114	87 845	1 195 314	4 118 767	4 802 008	8 929 351	443 225
322213	Setup paperboard box mfg .....	142	153	6 033	142 263	4 810	9 333	90 006	299 516	216 728	512 314	21 332
322214	Fiber can, tube, drum, & similar products mfg .....	138	284	11 498	355 517	9 481	19 292	261 515	952 629	1 352 153	2 305 281	70 009
322215	Nonfolding sanitary food container mfg .....	46	82	14 709	436 010	12 377	25 328	336 174	1 170 676	1 516 411	2 670 930	65 827
32222	Paper bag & coated & treated paper mfg .....	764	945	75 370	2 624 531	55 717	119 916	1 660 845	8 708 660	10 696 858	19 367 269	558 655
322221	Coated & laminated packaging paper & plastics film mfg .....	73	85	5 385	183 786	4 171	9 112	123 403	541 684	956 326	1 491 170	46 285
322222	Coated & laminated paper mfg .....	509	579	41 550	1 552 642	28 611	61 493	918 343	5 843 950	6 011 082	11 845 958	363 320
322223	Plastics, foil, & coated paper bag mfg .....	40	41	2 991	94 810	2 147	4 345	55 454	240 445	254 889	493 924	16 979
322224	Uncoated paper & multiwall bag mfg .....	93	143	16 808	461 405	14 199	30 322	345 294	1 124 247	1 679 126	2 794 934	79 978
322225	Laminated aluminum foil mfg for flexible packaging uses .....	34	42	5 342	205 766	4 112	9 111	142 801	603 535	996 431	1 587 850	36 925
322226	Surface-coated paperboard mfg .....	42	55	3 294	126 122	2 477	5 533	75 550	354 799	799 004	1 153 433	15 168
32223	Stationery product mfg .....	674	806	47 750	1 375 317	36 136	72 964	903 722	3 736 501	4 130 901	7 734 912	248 190
322231	Die-cut paper & paperboard office supplies mfg .....	337	357	12 552	337 559	9 813	19 921	223 444	992 306	1 150 628	2 105 012	55 008
322232	Envelope mfg .....	188	278	25 981	796 765	19 629	40 089	530 309	1 744 897	1 924 526	3 655 270	148 406
322233	Stationery, tablet, & related product mfg .....	158	171	9 217	240 993	6 694	12 954	149 969	999 298	1 055 747	1 974 630	44 776
32229	Other converted paper product mfg .....	623	737	42 268	1 370 795	33 514	67 805	947 652	6 455 294	5 190 067	11 681 473	493 963
322291	Sanitary paper product mfg .....	99	136	18 360	680 102	14 980	31 266	514 519	4 463 242	3 345 082	7 833 607	373 969
322299	All other converted paper product mfg .....	529	601	23 908	690 693	18 534	36 539	433 133	1 992 052	1 844 985	3 847 866	119 994
323	Printing & related support activities .....	40 987	42 863	834 404	26 022 991	607 637	1 164 310	16 336 416	58 392 618	39 219 976	97 485 138	5 052 110
3231	Printing & related support activities .....	40 987	42 863	834 404	26 022 991	607 637	1 164 310	16 336 416	58 392 618	39 219 976	97 485 138	5 052 110
32311	Printing .....	36 617	38 242	751 027	23 250 806	544 646	1 041 535	14 532 062	52 916 516	37 779 163	90 564 648	4 703 898
323110	Commercial lithographic printing .....	18 015	18 602	413 680	13 708 665	299 255	585 415	8 619 364	29 460 988	20 662 589	50 027 462	3 009 917
323111	Commercial gravure printing .....	419	450	23 126	802 731	19 323	38 515	619 074	1 911 486	1 983 432	3 892 449	250 899
323112	Commercial flexographic printing .....	864	909	30 348	1 027 927	20 474	41 999	564 226	2 521 146	2 176 378	4 675 493	204 874
323113	Commercial screen printing .....	4 096	4 143	72 479	1 731 971	53 292	95 544	983 156	3 708 959	2 903 873	6 622 326	266 409
323114	Quick printing .....	7 990	8 259	52 069	1 248 931	36 484	59 090	765 602	2 674 764	1 474 788	4 147 172	191 322
323115	Digital printing .....	386	386	4 222	122 560	2 834	5 058	67 259	270 928	134 210	405 679	27 700
323116	Manifold business form printing .....	719	1 033	55 884	1 678 053	38 992	75 106	1 075 577	5 631 433	3 887 345	9 516 072	257 543
323117	Book printing .....	690	743	49 047	1 530 539	38 782	75 742	1 057 001	3 300 926	2 216 983	5 517 171	289 820
323118	Blankbook, looseleaf binder, & device mfg .....	283	299	17 565	496 481	12 566	25 249	256 314	1 530 134	1 017 065	2 540 799	82 328
323119	Other commercial printing .....	3 387	3 418	32 607	902 948	22 644	39 817	524 489	1 905 752	1 322 500	3 220 025	123 086
32312	Support activities for printing. Tradebinding & related work .....	4 448	4 621	83 377	2 772 185	62 991	122 775	1 804 354	5 476 102	1 440 813	6 920 490	348 212
323121	Tradebinding & related work .....	1 260	1 284	30 831	755 060	25 510	49 986	534 978	1 487 276	457 629	1 946 867	88 962
323122	Prepress services .....	3 191	3 337	52 546	2 017 125	37 481	72 789	1 269 376	3 988 826	983 184	4 973 623	259 250

See footnotes at end of table.

**Table 1–1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan- ies <sup>1</sup>	All estab- lish- ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi- tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
324	Petroleum & coal products mfg ..	1 166	2 146	107 625	5 546 082	71 554	161 036	3 421 272	37 610 773	139 509 979	177 393 098	4 755 162
3241	Petroleum & coal products mfg .....	1 166	2 146	107 625	5 546 082	71 554	161 036	3 421 272	37 610 773	139 509 979	177 393 098	4 755 162
32411	Petroleum refineries .....	122	242	65 448	3 884 869	42 693	99 837	2 412 190	30 878 456	127 555 077	158 667 598	4 244 371
324110	Petroleum refineries .....	122	242	65 448	3 884 869	42 693	99 837	2 412 190	30 878 456	127 555 077	158 667 598	4 244 371
32412	Asphalt paving, roofing, & saturated materials mfg .....	674	1 418	27 301	1 059 768	20 054	43 122	709 048	4 007 042	6 969 639	10 981 761	345 465
324121	Asphalt paving mixture & block mfg .....	531	1 168	13 946	560 441	10 097	21 183	372 301	1 974 057	3 897 190	5 887 180	195 527
324122	Asphalt shingle & coating materials mfg .....	151	250	13 355	499 327	9 957	21 939	336 747	2 032 985	3 072 449	5 094 581	149 938
32419	Other petroleum & coal products mfg .....	403	486	14 876	601 445	8 807	18 077	300 034	2 725 275	4 985 263	7 743 739	165 326
324191	Petroleum lubricating oil & grease mfg .....	344	413	11 242	448 857	5 966	11 923	192 066	2 068 913	3 973 546	6 070 406	105 229
324199	All other petroleum & coal products mfg .....	61	73	3 634	152 588	2 841	6 154	107 968	656 362	1 011 717	1 673 333	60 097
325	Chemical mfg .....	9 626	13 474	882 645	39 835 717	512 152	1 068 966	19 192 170	224 684 500	192 199 632	415 616 508	21 669 251
3251	Basic chemical mfg .....	1 203	2 418	200 766	10 290 943	114 874	244 213	5 417 819	53 736 421	59 632 425	113 356 912	7 908 365
32511	Petrochemical mfg .....	42	52	10 192	620 132	5 741	12 869	326 988	8 359 545	11 192 888	19 468 615	988 915
325110	Petrochemical mfg .....	42	52	10 192	620 132	5 741	12 869	326 988	8 359 545	11 192 888	19 468 615	988 915
32512	Industrial gas mfg .....	119	646	12 636	579 853	6 814	14 518	296 561	3 485 572	1 918 360	5 416 308	728 910
325120	Industrial gas mfg .....	119	646	12 636	579 853	6 814	14 518	296 561	3 485 572	1 918 360	5 416 308	728 910
32513	Dye & pigment mfg .....	152	197	17 318	782 624	10 558	22 427	452 367	3 361 633	3 038 484	6 438 366	340 062
325131	Inorganic dye & pigment mfg .....	59	74	8 629	394 603	5 675	11 827	251 387	2 030 987	1 709 715	3 745 010	211 915
325132	Synthetic organic dye & pigment mfg .....	95	123	8 689	388 021	4 883	10 600	200 980	1 330 646	1 328 769	2 693 356	128 147
32518	Other basic inorganic chemical mfg .....	409	698	60 055	2 971 865	31 710	64 838	1 470 779	12 729 040	7 969 310	20 731 059	1 211 259
325181	Alkalies & chlorine mfg .....	26	39	4 859	272 779	3 348	7 085	175 560	1 421 798	1 064 748	2 465 183	284 549
325182	Carbon black mfg .....	8	22	1 769	90 694	1 123	2 733	53 892	547 537	445 282	990 391	89 107
325188	All other basic inorganic chemical mfg .....	385	637	53 427	2 608 392	27 239	55 020	1 241 327	10 759 705	6 459 280	17 275 485	837 603
32519	Other basic organic chemical mfg .....	581	825	100 565	5 336 469	60 051	129 561	2 871 124	25 800 631	35 513 383	61 302 564	4 639 219
325191	Gum & wood chemical mfg .....	45	62	2 261	84 253	1 703	3 775	56 457	469 629	348 290	814 676	33 575
325192	Cyclic crude & intermediate mfg .....	36	51	8 641	467 132	5 153	11 442	257 924	2 807 384	4 053 054	6 861 138	768 610
325193	Ethyl alcohol mfg .....	31	36	1 503	58 421	1 037	2 288	38 109	226 520	994 308	1 222 166	36 694
325199	All other basic organic chemical mfg .....	487	676	88 160	4 726 663	52 158	112 056	2 518 634	22 297 098	30 117 731	52 404 584	3 800 340
3252	Resin, syn rubber, & artificial syn fibers & filaments mfg .....	469	780	115 691	5 397 924	78 859	172 461	3 286 931	27 307 501	37 346 437	64 417 772	3 953 660
32521	Resin & synthetic rubber mfg .....	406	674	73 804	3 788 883	45 897	100 261	2 164 062	20 399 243	31 145 699	51 379 595	3 312 417
325211	Plastics material & resin mfg .....	299	530	61 632	3 160 542	38 078	83 556	1 798 060	17 625 910	27 750 752	45 225 887	2 923 891
325212	Synthetic rubber mfg .....	122	144	12 172	628 341	7 819	16 705	366 002	2 773 333	3 394 947	6 153 708	388 526
32522	Artificial & synthetic fibers & filaments mfg .....	70	106	41 887	1 609 041	32 962	72 200	1 122 869	6 908 258	6 200 738	13 038 177	641 243
325221	Cellulosic organic fiber mfg .....	4	6	4 802	174 879	3 750	7 875	120 838	603 753	500 989	1 096 983	46 741
325222	Noncellulosic organic fiber mfg .....	67	100	37 085	1 434 162	29 212	64 325	1 002 031	6 304 505	5 699 749	11 941 194	594 502
3253	Pesticide, fertilizer, & other agricultural chemical mfg .....	692	911	37 123	1 515 969	23 746	51 894	870 343	12 576 259	11 802 223	24 176 999	1 308 297
32531	Fertilizer mfg .....	477	652	23 150	880 977	15 646	34 726	546 199	4 900 041	7 943 425	12 759 745	871 077
325311	Nitrogenous fertilizer mfg ..	116	145	5 811	286 132	3 701	8 133	170 626	1 814 299	2 172 209	3 961 254	589 737
325312	Phosphatic fertilizer mfg ..	43	58	8 482	357 905	5 907	14 039	240 391	2 062 571	3 451 125	5 474 672	210 209
325314	Fertilizer (mixing only) mfg .....	334	449	8 857	236 940	6 038	12 554	135 182	1 023 171	2 320 091	3 323 819	71 131
32532	Pesticide & other agricultural chemical mfg .....	222	259	13 973	634 992	8 100	17 168	324 144	7 676 218	3 858 798	11 417 254	437 220
325320	Pesticide & other agricultural chemical mfg ..	222	259	13 973	634 992	8 100	17 168	324 144	7 676 218	3 858 798	11 417 254	437 220
3254	Pharmaceutical & medicine mfg .....	1 428	1 761	203 337	10 111 751	100 900	205 009	3 690 325	64 108 002	29 616 274	92 932 786	4 750 538
32541	Pharmaceutical & medicine mfg .....	1 428	1 761	203 337	10 111 751	100 900	205 009	3 690 325	64 108 002	29 616 274	92 932 786	4 750 538
325411	Medicinal & botanical mfg ..	312	338	27 764	1 530 029	13 505	29 216	596 030	6 297 660	5 588 337	11 888 455	1 125 300
325412	Pharmaceutical preparation mfg .....	707	832	114 119	5 522 283	61 848	124 912	2 131 449	47 864 824	19 480 126	66 734 737	2 491 682
325413	In-vitro diagnostic substance mfg .....	203	228	38 485	2 051 030	13 626	26 352	579 439	6 253 818	2 435 838	8 682 377	706 684
325414	Biological product (except diagnostic) mfg .....	267	363	22 969	1 008 409	11 921	24 529	383 407	3 691 700	2 111 973	5 627 217	426 872
3255	Paint, coating, & adhesive mfg ..	1 205	1 492	74 464	2 903 042	40 854	81 651	1 259 535	12 618 013	13 799 470	26 369 629	654 220
32551	Paint & coating mfg .....	1 205	1 492	74 464	2 903 042	40 854	81 651	1 259 535	12 618 013	13 799 470	26 369 629	654 220
325510	Paint & coating mfg .....	1 205	1 492	74 464	2 903 042	40 854	81 651	1 259 535	12 618 013	13 799 470	26 369 629	654 220
32552	Adhesive mfg .....	540	689	21 692	831 391	12 623	26 273	383 462	3 383 301	3 938 746	7 312 435	243 177
325520	Adhesive mfg .....	540	689	21 692	831 391	12 623	26 273	383 462	3 383 301	3 938 746	7 312 435	243 177

See footnotes at end of table.

**Table 1–1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
325	Chemical mfg—Con.											
3256	Soap, cleaning compound, & toilet preparation mfg .....	2 251	2 468	126 446	4 567 517	77 754	154 558	2 179 672	34 359 408	20 876 590	55 141 340	1 478 636
32561	Soap & cleaning compound mfg .....	1 583	1 742	62 479	2 454 050	37 266	76 994	1 197 672	17 755 669	13 183 941	30 928 488	906 378
325611	Soap & other detergent mfg .....	738	805	31 052	1 268 061	18 152	36 800	626 457	10 478 562	7 337 083	17 772 851	464 466
325612	Polish & other sanitation good mfg .....	675	727	21 985	724 411	14 133	28 728	360 261	5 149 717	3 190 254	8 369 554	153 642
325613	Surface active agent mfg ..	183	210	9 442	461 578	4 981	11 466	210 954	2 127 390	2 656 604	4 786 083	288 270
32562	Toilet preparation mfg .....	681	726	63 967	2 113 467	40 488	77 564	982 000	16 603 739	7 692 649	24 212 852	572 258
325620	Toilet preparation mfg ....	681	726	63 967	2 113 467	40 488	77 564	982 000	16 603 739	7 692 649	24 212 852	572 258
3259	Other chemical product mfg ...	2 287	2 955	124 818	5 048 571	75 165	159 180	2 487 545	19 978 896	19 126 213	39 221 070	1 615 535
32591	Printing ink mfg .....	255	566	13 196	509 564	7 001	14 674	243 525	1 627 402	2 480 229	4 076 500	90 509
325910	Printing ink mfg .....	255	566	13 196	509 564	7 001	14 674	243 525	1 627 402	2 480 229	4 076 500	90 509
32592	Explosives mfg .....	66	103	8 972	312 301	6 648	13 516	190 534	789 782	649 413	1 447 274	44 209
325920	Explosives mfg .....	66	103	8 972	312 301	6 648	13 516	190 534	789 782	649 413	1 447 274	44 209
32599	All other chemical product & preparation mfg .....	1 973	2 286	102 650	4 226 706	61 516	130 990	2 053 486	17 561 712	15 996 571	33 697 296	1 480 817
325991	Custom compounding of purchased resin .....	728	829	27 664	969 961	18 130	36 014	508 084	3 092 396	4 871 853	7 960 246	298 243
325992	Photographic film, paper, plate, & chemical mfg ....	276	311	39 090	1 836 912	21 863	51 584	856 684	7 673 452	5 072 320	12 918 747	571 275
325998	All other miscellaneous chemical product & preparation mfg .....	985	1 146	35 896	1 419 833	21 523	43 392	688 718	6 795 864	6 052 398	12 818 303	611 299
326	Plastics & rubber products mfg...	13 798	16 821	1 023 060	29 804 904	805 689	1 607 820	19 828 676	81 349 082	77 994 466	159 161 346	7 836 663
3261	Plastics product mfg .....	11 613	14 012	820 707	23 029 570	644 417	1 277 327	14 957 832	63 280 786	61 404 727	124 445 374	6 451 221
32611	Unsupported plastics film, sheet, & bag mfg .....	1 250	1 486	110 292	3 646 537	84 706	178 589	2 389 616	11 591 673	13 069 256	24 624 844	1 324 069
326111	Unsupported plastics bag mfg .....	440	498	40 671	1 168 260	33 153	69 064	808 133	3 402 530	3 906 147	7 300 237	366 375
326112	Unsupported plastics packaging film & sheet mfg .....	131	164	15 428	550 628	11 960	26 406	390 046	1 606 103	2 024 844	3 638 911	214 642
326113	Unsupported plastics film & sheet (except packaging) mfg .....	713	824	54 193	1 927 649	39 593	83 119	1 191 437	6 583 040	7 138 265	13 685 696	743 052
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	1 048	1 230	47 419	1 409 531	35 828	71 193	880 768	4 066 325	5 207 289	9 228 294	458 816
326121	Unsupported plastics profile shape mfg .....	733	787	27 449	857 876	20 145	40 386	512 494	2 273 968	2 149 086	4 436 148	215 561
326122	Plastics pipe & pipe fitting mfg .....	317	443	19 970	551 655	15 683	30 807	368 274	1 792 357	3 058 203	4 792 146	243 255
32613	Laminated plastics plate, sheet, & shape mfg .....	438	457	16 517	545 933	12 898	27 290	366 539	1 624 612	1 569 088	3 195 293	139 476
326130	Laminated plastics plate, sheet, & shape mfg .....	438	457	16 517	545 933	12 898	27 290	366 539	1 624 612	1 569 088	3 195 293	139 476
32614	Polystyrene foam product mfg .....	379	518	27 142	759 412	21 651	44 179	520 399	2 420 515	2 477 909	4 899 240	317 912
326140	Polystyrene foam product mfg .....	379	518	27 142	759 412	21 651	44 179	520 399	2 420 515	2 477 909	4 899 240	317 912
32615	Urethane & other foam product (except polystyrene) mfg .....	447	660	37 362	1 008 426	29 732	56 309	657 957	2 822 544	3 860 712	6 664 656	216 869
326150	Urethane & other foam product (except polystyrene) mfg .....	447	660	37 362	1 008 426	29 732	56 309	657 957	2 822 544	3 860 712	6 664 656	216 869
32616	Plastics bottle mfg .....	245	466	33 933	963 813	28 892	59 651	736 959	3 097 170	3 267 717	6 335 218	447 247
326160	Plastics bottle mfg .....	245	466	33 933	963 813	28 892	59 651	736 959	3 097 170	3 267 717	6 335 218	447 247
32619	Other plastics product mfg ..	8 077	9 195	548 042	14 695 918	430 710	840 116	9 405 594	37 657 947	31 952 756	69 497 829	3 546 832
326191	Plastics plumbing fixture mfg .....	539	570	19 254	452 514	14 913	29 618	299 326	1 239 095	937 423	2 181 207	48 736
326192	Resilient floor covering mfg .....	28	36	6 070	270 689	4 739	9 694	199 622	946 321	758 886	1 684 216	66 721
326199	All other plastics product mfg .....	7 522	8 589	522 718	13 972 715	411 058	800 804	8 906 646	35 472 531	30 256 447	65 632 406	3 431 375
3262	Rubber product mfg .....	2 271	2 809	202 353	6 775 334	161 272	330 493	4 870 844	18 068 296	16 589 739	34 715 972	1 385 442
32621	Tire mfg .....	736	911	72 189	2 962 564	60 041	123 368	2 345 619	7 917 563	7 754 560	15 699 140	611 115
326211	Tire mfg (except retreading) .....	110	161	64 334	2 772 569	54 156	110 662	2 219 999	7 521 527	7 182 764	14 728 525	587 101
326212	Tire retreading .....	628	750	7 855	189 995	5 885	12 706	125 620	396 036	571 796	970 615	24 014
32622	Rubber & plastics hoses & belting mfg .....	149	218	24 182	749 220	18 758	39 339	521 633	2 162 353	1 822 849	4 025 238	144 948
326220	Rubber & plastics hoses & belting mfg .....	149	218	24 182	749 220	18 758	39 339	521 633	2 162 353	1 822 849	4 025 238	144 948
32629	Other rubber product mfg ...	1 408	1 680	105 982	3 063 550	82 473	167 786	2 003 592	7 988 380	7 012 330	14 991 594	629 379
326291	Rubber product mfg for mechanical use .....	608	716	55 397	1 593 564	44 429	91 977	1 091 734	3 857 118	2 835 920	6 668 381	345 438
326299	All other rubber product mfg .....	827	964	50 585	1 469 986	38 044	75 809	911 858	4 131 262	4 176 410	8 323 213	283 941

See footnotes at end of table.

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				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
327	Nonmetallic mineral product mfg .	11 921	16 310	501 471	16 172 049	388 898	797 684	11 319 464	49 425 491	37 072 480	86 464 708	4 798 921
3271	Clay product & refractory mfg . . .	1 715	1 972	80 441	2 235 382	63 892	126 455	1 576 150	5 915 703	3 201 379	9 107 840	414 410
32711	Pottery, ceramics, & plumbing fixture mfg . . . . .	1 204	1 253	42 557	1 114 784	34 231	66 068	803 891	2 813 867	1 199 660	3 992 979	159 671
327111	Vitreous china plumbing fixture & bathroom accessories mfg . . . . .	43	57	9 222	284 871	7 816	16 305	234 827	807 165	287 587	1 109 995	14 877
327112	Vitreous china, fine earthenware, & other pottery product mfg . . . . .	1 034	1 048	23 253	504 659	18 575	33 644	353 921	1 208 102	540 985	1 715 783	76 465
327113	Porcelain electrical supply mfg . . . . .	131	148	10 082	325 254	7 840	16 119	215 143	798 600	371 088	1 167 201	68 329
32712	Clay building material & refractories mfg . . . . .	519	719	37 884	1 120 598	29 661	60 387	772 259	3 101 836	2 001 719	5 114 861	254 739
327121	Brick & structural clay tile mfg . . . . .	127	223	13 694	360 947	10 858	22 136	248 671	970 014	439 178	1 411 833	70 726
327122	Ceramic wall & floor tile mfg . . . . .	157	168	8 755	214 860	7 439	15 017	166 180	556 920	297 905	851 405	58 800
327123	Other structural clay product mfg . . . . .	48	51	1 332	35 163	1 025	1 945	22 877	80 941	34 771	117 376	4 856
327124	Clay refractory mfg . . . . .	115	147	5 781	199 274	4 386	8 809	138 806	564 030	552 865	1 115 939	25 605
327125	Nonclay refractory mfg . . . . .	91	130	8 322	310 354	5 953	12 480	195 725	929 931	677 000	1 618 308	94 752
3272	Glass & glass product mfg . . . . .	1 996	2 260	128 565	4 428 351	105 051	217 330	3 320 718	14 052 256	8 735 491	22 732 942	1 642 137
32721	Glass & glass product mfg . . . . .	1 996	2 260	128 565	4 428 351	105 051	217 330	3 320 718	14 052 256	8 735 491	22 732 942	1 642 137
327211	Flat glass mfg . . . . .	13	36	11 579	535 454	9 474	21 457	421 377	1 888 716	926 796	2 795 507	176 690
327212	Other pressed & blown glass & glassware mfg . . . . .	465	513	35 383	1 228 719	29 423	61 361	943 615	4 341 468	1 809 430	6 094 602	627 705
327213	Glass container mfg . . . . .	11	61	21 184	840 703	18 679	37 300	710 641	2 557 999	1 589 110	4 198 122	283 023
327215	Glass product mfg made of purchased glass . . . . .	1 522	1 650	60 419	1 823 475	47 475	97 212	1 245 085	5 264 075	4 410 155	9 644 711	554 719
3273	Cement & concrete product mfg . . . . .	5 930	9 156	194 970	6 190 454	145 829	300 841	4 172 094	17 964 132	16 639 105	34 591 507	1 802 948
32731	Cement mfg . . . . .	176	277	16 925	734 226	12 496	27 244	498 001	4 022 503	2 475 798	6 531 747	505 630
327310	Cement mfg . . . . .	176	277	16 925	734 226	12 496	27 244	498 001	4 022 503	2 475 798	6 531 747	505 630
32732	Ready-mix concrete mfg . . . . .	2 888	5 221	93 136	2 965 346	72 464	147 770	2 153 268	7 780 774	9 418 330	17 219 886	798 851
327320	Ready-mix concrete mfg . . . . .	2 888	5 221	93 136	2 965 346	72 464	147 770	2 153 268	7 780 774	9 418 330	17 219 886	798 851
32733	Concrete pipe, brick, & block mfg . . . . .	955	1 346	32 164	990 225	22 043	46 594	580 378	2 655 107	2 233 924	4 852 512	228 914
327331	Concrete block & brick mfg . . . . .	708	931	18 079	559 417	11 202	23 738	292 938	1 463 652	1 407 165	2 844 076	149 684
327332	Concrete pipe mfg . . . . .	264	415	14 085	430 808	10 841	22 856	287 440	1 191 455	2 008 436	2 008 436	79 230
32739	Other concrete product mfg . . . . .	2 079	2 312	52 745	1 500 657	38 826	79 233	940 447	3 505 748	2 511 053	5 987 362	269 553
327390	Other concrete product mfg . . . . .	2 079	2 312	52 745	1 500 657	38 826	79 233	940 447	3 505 748	2 511 053	5 987 362	269 553
3274	Lime & gypsum product mfg . . . . .	230	357	18 856	691 349	14 990	34 125	508 612	2 816 807	2 709 641	5 533 623	213 098
32741	Lime mfg . . . . .	46	84	5 313	194 786	4 067	9 017	144 758	614 959	548 714	1 168 450	59 097
327410	Lime mfg . . . . .	46	84	5 313	194 786	4 067	9 017	144 758	614 959	548 714	1 168 450	59 097
32742	Gypsum product mfg . . . . .	185	273	13 543	496 563	10 923	25 108	363 854	2 201 848	2 160 927	4 365 173	154 001
327420	Gypsum product mfg . . . . .	185	273	13 543	496 563	10 923	25 108	363 854	2 201 848	2 160 927	4 365 173	154 001
3279	Other nonmetallic mineral product mfg . . . . .	2 159	2 565	78 639	2 626 513	59 136	118 933	1 741 890	8 676 593	5 786 864	14 498 796	726 328
32791	Abrasive product mfg . . . . .	319	360	22 571	782 054	15 894	31 023	424 991	2 918 902	1 714 596	4 660 043	155 961
327910	Abrasive product mfg . . . . .	319	360	22 571	782 054	15 894	31 023	424 991	2 918 902	1 714 596	4 660 043	155 961
32799	All other nonmetallic mineral product mfg . . . . .	1 849	2 205	56 068	1 844 459	43 242	87 910	1 316 899	5 757 691	4 072 268	9 838 753	570 367
327991	Cut stone & stone product mfg . . . . .	1 004	1 019	13 109	350 549	10 284	20 832	254 798	790 761	451 203	1 244 735	52 771
327992	Ground or treated mineral & earth mfg . . . . .	261	387	10 115	360 995	7 149	15 130	227 263	1 427 108	943 880	2 362 480	133 223
327993	Mineral wool mfg . . . . .	201	298	21 610	811 380	17 791	36 164	624 686	2 601 843	1 803 109	4 422 507	282 825
327999	All other miscellaneous nonmetallic mineral product mfg . . . . .	404	501	11 234	321 535	8 018	15 784	210 152	937 979	874 076	1 809 031	101 548
331	Primary metal mfg . . . . .	4 076	5 059	605 085	23 811 233	479 552	1 024 675	17 354 552	68 749 487	99 343 265	168 117 728	6 515 752
3311	Iron & steel mills & ferroalloy mfg . . . . .	209	296	149 875	7 604 810	117 490	258 552	5 751 639	25 432 010	33 174 527	58 383 159	2 673 741
33111	Iron & steel mills & ferroalloy mfg . . . . .	209	296	149 875	7 604 810	117 490	258 552	5 751 639	25 432 010	33 174 527	58 383 159	2 673 741
331111	Iron & steel mills . . . . .	191	273	146 215	7 450 380	114 865	252 629	5 649 360	24 868 550	32 324 688	56 994 468	2 604 676
331112	Electrometallurgical ferroalloy product mfg . . . . .	19	23	3 660	154 430	2 625	5 923	102 279	563 460	849 839	1 388 691	69 065
3312	Steel product mfg from purchased steel . . . . .	503	685	64 200	2 306 920	49 895	105 540	1 620 447	6 762 383	11 817 088	18 516 877	533 536
33121	Iron & steel pipes & tubes mfg from purchased steel . . . . .	166	230	26 864	956 735	21 004	44 364	658 737	2 784 745	4 698 884	7 450 132	216 395
331210	Iron & steel pipes & tubes mfg from purchased steel . . . . .	166	230	26 864	956 735	21 004	44 364	658 737	2 784 745	4 698 884	7 450 132	216 395
33122	Rolling & drawing of purchased steel . . . . .	346	455	37 336	1 350 185	28 891	61 176	961 710	3 977 638	7 118 204	11 066 745	317 141
331221	Cold-rolled steel shape mfg . . . . .	153	185	14 106	630 082	10 234	21 284	433 053	2 030 226	4 227 476	6 239 017	139 343
331222	Steel wire drawing . . . . .	199	270	23 230	720 103	18 657	39 892	528 657	1 947 412	2 890 728	4 827 728	177 798

See footnotes at end of table.

**Table 1–1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
331	Primary metal mfg—Con.											
3313	Alumina & aluminum production & processing .....	248	400	84 487	3 345 036	66 665	142 548	2 344 731	10 063 942	22 294 745	32 550 279	1 073 646
33131	Alumina & aluminum production & processing ...	248	400	84 487	3 345 036	66 665	142 548	2 344 731	10 063 942	22 294 745	32 550 279	1 073 646
331311	Alumina refining.....	5	6	3 035	150 696	2 278	5 060	102 416	329 432	816 488	1 219 057	96 963
331312	Primary aluminum production.....	13	21	15 763	707 402	12 624	26 074	512 941	2 432 972	3 706 850	6 224 610	320 294
331314	Secondary smelting & alloying of aluminum....	87	109	6 614	226 469	5 036	10 930	149 770	796 535	2 799 262	3 595 436	86 449
331315	Aluminum sheet, plate, & foil mfg .....	41	69	24 709	1 175 506	19 015	41 140	818 202	3 546 870	10 076 298	13 708 307	331 444
331316	Aluminum extruded product mfg .....	105	160	30 357	944 829	24 556	52 804	661 814	2 476 351	3 742 324	6 177 701	208 984
331319	Other aluminum rolling & drawing .....	30	35	4 009	140 134	3 156	6 540	99 588	481 782	1 153 523	1 625 168	29 512
3314	Nonferrous metal (except aluminum) production & processing .....	698	868	81 162	3 048 301	60 466	130 927	2 050 452	9 598 600	19 838 235	29 616 370	917 401
33141	Nonferrous metal (except aluminum) smelting & refining .....	134	156	16 568	651 108	12 234	26 895	441 795	2 455 517	6 977 108	9 530 263	346 123
331411	Primary smelting & refining of copper .....	9	16	7 360	287 382	5 721	12 640	218 511	1 029 440	5 010 388	6 128 370	184 604
331419	Other nonferrous metal primary smelting & refining .....	127	140	9 208	363 726	6 513	14 255	223 284	1 426 077	1 966 720	3 401 893	161 519
33142	Copper rolling, drawing, extruding, & alloying .....	154	199	27 583	996 132	21 275	46 338	695 579	2 951 706	6 834 865	9 800 616	202 635
331421	Copper rolling, drawing, & extruding .....	91	128	21 012	780 787	16 504	36 325	564 338	2 303 999	5 306 797	7 619 953	144 446
331422	Copper wire (except mechanical) drawing.....	33	36	4 238	124 240	3 191	6 593	82 651	324 392	659 613	983 284	41 788
331423	Secondary smelting, refining, & alloying of copper .....	34	35	2 333	91 105	1 580	3 420	48 590	323 315	868 455	1 197 379	16 401
33149	Other nonferrous metal rolling, drawing, extruding, & alloying .....	440	513	37 011	1 401 061	26 957	57 694	913 078	4 191 377	6 026 262	10 285 491	368 643
331491	Other nonferrous metal rolling, drawing, & extruding .....	220	264	25 484	977 877	18 616	40 298	643 810	2 982 604	4 013 631	7 057 705	247 299
331492	Other nonferrous metal secondary smelting, refining, & alloying.....	233	249	11 527	423 184	8 341	17 396	269 268	1 208 773	2 012 631	3 227 786	121 344
3315	Foundries .....	2 521	2 810	225 361	7 506 166	185 036	387 108	5 587 283	16 892 552	12 218 670	29 051 043	1 317 428
33151	Ferrous metal foundries .....	986	1 138	131 574	4 630 562	108 523	229 689	3 520 853	10 449 320	7 018 088	17 428 045	709 540
331511	Iron foundries .....	602	693	85 429	3 211 357	70 950	153 103	2 476 238	7 043 449	5 144 588	12 187 267	508 271
331512	Steel investment foundries.....	145	159	22 673	669 452	18 385	36 870	494 655	1 656 130	715 264	2 341 737	76 396
331513	Steel foundries (except investment) .....	263	286	23 472	749 753	19 188	39 716	549 960	1 749 741	1 158 236	2 899 041	124 873
33152	Nonferrous metal foundries ..	1 559	1 672	93 787	2 875 604	76 513	157 419	2 066 430	6 443 232	5 200 582	11 622 998	607 888
331521	Aluminum die-casting foundries.....	291	318	27 516	899 544	22 771	47 159	675 908	1 967 631	1 874 589	3 843 845	222 846
331522	Nonferrous (except aluminum) die-casting foundries.....	267	279	16 840	488 196	13 421	26 711	337 972	1 128 064	868 735	1 998 772	83 714
331524	Aluminum foundries (except die-casting) .....	592	623	33 768	1 006 954	27 581	57 846	718 127	2 195 343	1 725 459	3 916 527	240 847
331525	Copper foundries (except die-casting).....	301	311	8 868	258 151	7 388	14 997	191 431	511 783	339 705	846 578	24 949
331528	Other nonferrous foundries (except die-casting) .....	136	141	6 795	222 759	5 352	10 706	142 992	640 411	392 094	1 017 276	35 532
332	Fabricated metal product mfg ....	58 516	62 384	1 763 772	56 631 583	1 327 053	2 674 948	36 251 771	133 493 077	110 067 843	242 813 453	9 368 661
3321	Forging & stamping.....	3 026	3 262	158 944	5 461 638	121 141	254 289	3 565 677	12 458 562	12 039 551	24 375 589	1 071 291
33211	Forging & stamping.....	3 026	3 262	158 944	5 461 638	121 141	254 289	3 565 677	12 458 562	12 039 551	24 375 589	1 071 291
332111	Iron & steel forging .....	390	417	26 156	1 020 473	19 766	42 001	687 494	2 423 265	2 482 765	4 869 727	209 964
332112	Nonferrous forging .....	75	83	8 991	363 301	6 850	15 270	254 379	991 288	856 947	1 838 385	126 239
332114	Custom roll forming .....	360	404	15 852	522 950	11 370	23 765	314 799	1 343 729	1 992 247	3 301 907	58 607
332115	Crown & closure mfg .....	55	66	4 576	161 511	3 787	7 949	120 527	430 618	519 503	953 864	51 421
332116	Metal stamping .....	2 051	2 163	92 511	3 022 396	71 443	148 535	1 950 581	6 471 538	5 637 898	12 078 985	544 083
332117	Powder metallurgy part mfg .....	114	129	10 858	371 007	7 925	16 769	237 897	798 124	550 191	1 332 721	80 977
3322	Cutlery & handtool mfg .....	1 545	1 690	77 337	2 484 032	57 934	116 634	1 540 077	7 483 422	4 020 780	11 475 344	539 985
33221	Cutlery & handtool mfg .....	1 545	1 690	77 337	2 484 032	57 934	116 634	1 540 077	7 483 422	4 020 780	11 475 344	539 985
332211	Cutlery & flatware (except precious) mfg .....	163	171	10 301	331 471	8 091	15 550	219 765	1 565 685	487 348	2 013 256	208 248
332212	Hand & edge tool mfg .....	1 164	1 268	50 598	1 639 098	37 657	76 023	1 004 772	4 296 327	2 420 540	6 713 485	237 147
332213	Saw blade & handsaw mfg .....	166	175	9 127	300 001	6 596	13 759	179 674	878 749	554 627	1 447 890	67 086
332214	Kitchen utensil, pot, & pan mfg .....	69	76	7 311	213 462	5 590	11 302	135 866	742 661	558 251	1 300 713	27 504
3323	Architectural & structural metals mfg .....	11 649	12 437	381 573	11 447 903	278 403	563 624	6 983 127	26 495 235	27 299 174	53 547 213	1 267 964
33231	Plate work & fabricated structural product mfg .....	4 423	4 680	144 843	4 528 931	104 954	213 352	2 754 793	10 810 136	12 913 525	23 574 845	446 420
332311	Prefabricated metal building & component mfg .....	557	610	27 167	798 192	18 698	37 575	453 021	1 992 908	2 713 236	4 686 554	71 652
332312	Fabricated structural metal mfg .....	2 872	3 040	92 471	2 942 908	67 051	138 360	1 799 845	7 263 292	8 960 125	16 115 143	297 513
332313	Plate work mfg.....	1 011	1 030	25 205	787 831	19 205	37 417	501 927	1 553 936	1 240 164	2 773 148	77 255

See footnotes at end of table.

**Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expenditures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
332	Fabricated metal product mfg—Con.											
3323	Architectural & structural metals mfg—Con.											
33232	Ornamental & architectural metal products mfg . . . . .	7 275	7 757	236 730	6 918 972	173 449	350 272	4 228 334	15 685 099	14 385 649	29 972 368	821 544
332321	Metal window & door mfg . . . . .	1 249	1 410	74 063	1 941 363	53 359	110 089	1 146 743	4 775 082	5 452 511	10 209 522	189 269
332322	Sheet metal work mfg . . . . .	4 202	4 457	127 791	3 991 922	95 091	190 440	2 481 680	8 660 105	7 000 352	15 584 570	533 363
332323	Ornamental & architectural metal work mfg . . . . .	1 845	1 890	34 876	985 687	24 999	49 743	599 911	2 249 912	1 932 786	4 178 276	98 912
3324	Boiler, tank, & shipping container mfg . . . . .	1 526	1 846	102 191	3 675 396	77 575	161 221	2 517 902	8 927 099	13 889 768	22 714 389	583 680
33241	Power boiler & heat exchanger mfg . . . . .	436	473	27 576	947 859	19 629	41 076	579 159	2 073 515	1 820 863	3 867 379	99 835
332410	Power boiler & heat exchanger mfg . . . . .	436	473	27 576	947 859	19 629	41 076	579 159	2 073 515	1 820 863	3 867 379	99 835
33242	Metal tank (heavy gauge) mfg . . . . .	552	610	33 300	1 129 336	23 961	48 872	697 464	2 394 902	2 320 414	4 703 647	122 434
332420	Metal tank (heavy gauge) mfg . . . . .	552	610	33 300	1 129 336	23 961	48 872	697 464	2 394 902	2 320 414	4 703 647	122 434
33243	Metal can, box, & other metal container (light gauge) mfg . . . . .	557	763	41 315	1 598 201	33 985	71 273	1 241 279	4 458 682	9 748 491	14 143 363	361 411
332431	Metal can mfg . . . . .	107	271	26 747	1 167 821	22 613	48 349	960 601	3 497 960	8 495 802	11 930 448	302 869
332439	Other metal container mfg . . . . .	455	492	14 568	430 380	11 372	22 924	280 678	960 722	1 252 689	2 212 915	58 542
3325	Hardware mfg . . . . .	906	1 011	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	383 483
33251	Hardware mfg . . . . .	906	1 011	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	383 483
332510	Hardware mfg . . . . .	906	1 011	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	383 483
3326	Spring & wire product mfg . . . . .	1 646	1 828	70 193	1 906 503	54 573	107 575	1 246 096	4 540 614	4 011 204	8 533 707	341 324
33261	Spring & wire product mfg . . . . .	1 646	1 828	70 193	1 906 503	54 573	107 575	1 246 096	4 540 614	4 011 204	8 533 707	341 324
332611	Spring (heavy gauge) mfg . . . . .	124	130	5 581	183 180	4 284	9 112	127 591	422 894	428 345	845 199	49 756
332612	Spring (light gauge) mfg . . . . .	320	394	18 798	564 372	15 128	30 374	389 840	1 393 527	1 089 676	2 481 151	109 228
332618	Other fabricated wire product mfg . . . . .	1 213	1 304	45 814	1 158 951	35 161	68 089	728 665	2 724 193	2 493 183	5 207 357	182 340
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	26 999	27 393	423 004	14 029 104	328 147	648 019	9 352 536	28 535 557	14 980 584	43 362 901	2 527 260
33271	Machine shops . . . . .	23 430	23 607	289 437	9 446 782	224 717	426 909	6 306 733	18 330 482	8 610 590	26 850 065	1 552 641
332710	Machine shops . . . . .	23 430	23 607	289 437	9 446 782	224 717	426 909	6 306 733	18 330 482	8 610 590	26 850 065	1 552 641
33272	Turned product & screw, nut, & bolt mfg . . . . .	3 593	3 786	133 567	4 582 322	103 430	221 110	3 045 803	10 205 075	6 369 994	16 512 836	974 619
332721	Precision turned product mfg . . . . .	2 696	2 745	80 225	2 629 738	63 556	136 140	1 809 381	5 493 232	2 846 618	8 304 805	578 189
332722	Bolt, nut, screw, rivet, & washer mfg . . . . .	913	1 041	53 342	1 952 584	39 874	84 970	1 236 422	4 711 843	3 523 376	8 208 031	396 430
3328	Coating, engraving, heat treating, & allied activities . . . . .	5 885	6 355	152 884	4 513 791	119 722	239 975	2 928 348	10 331 294	7 621 520	17 956 236	899 847
33281	Coating, engraving, heat treating, & allied activities . . . . .	5 885	6 355	152 884	4 513 791	119 722	239 975	2 928 348	10 331 294	7 621 520	17 956 236	899 847
332811	Metal heat treating . . . . .	662	800	22 299	789 233	17 171	35 106	519 823	2 020 611	1 438 026	3 442 317	292 270
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	1 978	2 154	55 954	1 634 627	44 418	89 740	1 093 781	4 154 477	4 354 598	8 515 488	313 368
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	3 286	3 401	74 631	2 089 931	58 133	115 129	1 314 744	4 156 206	1 828 896	5 998 431	294 209
3329	Other fabricated metal product mfg . . . . .	6 040	6 562	322 209	10 786 052	231 436	467 211	6 601 333	28 558 322	21 267 456	49 786 338	1 753 827
33291	Metal valve mfg . . . . .	1 077	1 322	126 245	4 364 424	86 465	178 808	2 491 566	12 516 090	9 444 017	21 983 284	756 074
332911	Industrial valve mfg . . . . .	429	540	54 294	1 947 182	35 367	72 721	1 050 155	5 115 344	3 781 002	8 965 193	317 610
332912	Fluid power valve & hose fitting mfg . . . . .	360	424	37 280	1 327 456	25 734	53 998	750 942	3 934 823	2 657 535	6 594 554	244 431
332913	Plumbing fixture fitting & trim mfg . . . . .	97	115	16 133	498 551	11 635	23 691	314 181	1 863 303	1 781 273	3 616 737	85 463
332919	Other metal valve & pipe fitting mfg . . . . .	220	243	18 538	591 235	13 729	28 398	376 288	1 602 620	1 224 207	2 806 800	108 570
33299	All other fabricated metal product mfg . . . . .	5 011	5 240	195 964	6 421 628	144 971	288 403	4 109 767	16 042 232	11 823 439	27 803 054	997 753
332991	Ball & roller bearing mfg . . . . .	116	184	36 547	1 368 804	29 827	63 026	1 033 718	3 742 916	2 363 496	6 093 840	309 041
332992	Small arms ammunition mfg . . . . .	107	114	7 135	254 731	5 386	10 669	172 743	610 244	374 810	976 944	26 740
332993	Ammunition (except small arms) mfg . . . . .	45	52	9 281	371 808	4 872	8 787	137 493	834 457	610 634	1 471 101	27 963
332994	Small arms mfg . . . . .	189	196	9 841	319 663	7 451	13 966	200 190	860 866	369 988	1 248 048	32 620
332995	Other ordnance & accessories mfg . . . . .	65	68	8 545	362 201	3 465	6 423	155 572	1 021 358	354 734	1 362 401	18 035
332996	Fabricated pipe & pipe fitting mfg . . . . .	806	859	29 746	879 723	22 565	46 037	573 134	2 104 979	2 038 910	4 118 699	146 922
332997	Industrial pattern mfg . . . . .	668	672	7 952	284 879	6 512	12 561	218 077	483 129	140 481	623 605	35 643
332998	Enameled iron & metal sanitary ware mfg . . . . .	82	87	9 792	275 889	7 700	15 115	179 923	969 728	600 546	1 553 730	53 323
332999	All other miscellaneous fabricated metal product mfg . . . . .	2 955	3 008	77 125	2 303 930	57 193	111 819	1 438 917	5 414 555	4 969 840	10 354 686	347 466

See footnotes at end of table.

Table 1-1d. **Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Com-panies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
333	Machinery mfg.....	27 983	30 599	1 420 512	53 012 226	936 047	1 895 580	29 106 922	137 934 706	133 291 232	270 687 165	8 835 703
3331	Agriculture, construction, & mining machinery mfg.....	2 832	3 116	211 200	7 689 706	148 997	298 556	4 729 479	24 431 912	30 036 282	54 181 573	1 477 965
33311	Agricultural implement mfg ..	1 386	1 483	94 711	3 102 280	70 618	140 841	2 058 905	10 355 405	13 187 254	23 371 367	693 333
333111	Farm machinery & equipment mfg.....	1 264	1 339	66 370	2 370 599	47 885	95 652	1 550 603	7 624 789	8 468 947	15 995 219	508 933
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	127	144	28 341	731 681	22 733	45 189	508 302	2 730 616	4 718 307	7 376 148	184 400
33312	Construction machinery mfg ..	723	786	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	492 550
333120	Construction machinery mfg ..	723	786	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	492 550
33313	Mining & oil & gas field machinery mfg.....	748	847	41 748	1 597 287	27 931	55 355	890 541	4 947 355	4 014 974	8 692 766	292 082
333131	Mining machinery & equipment mfg.....	261	290	13 507	485 338	9 118	18 939	273 557	1 379 429	1 354 429	2 705 885	62 942
333132	Oil & gas field machinery & equipment mfg.....	494	557	28 241	1 111 949	18 813	36 416	616 984	3 567 926	2 660 545	5 986 881	229 140
3332	Industrial machinery mfg .....	4 439	4 701	194 210	7 616 113	110 122	221 832	3 433 183	19 456 056	17 481 244	36 658 714	1 439 653
33321	Sawmill & woodworking machinery mfg.....	312	325	8 973	297 430	5 707	11 527	156 984	681 679	611 849	1 296 200	18 078
333210	Sawmill & woodworking machinery mfg.....	312	325	8 973	297 430	5 707	11 527	156 984	681 679	611 849	1 296 200	18 078
33322	Plastics & rubber industry machinery mfg.....	427	453	18 530	741 819	10 427	21 042	349 773	1 950 024	1 652 432	3 570 320	92 781
333220	Plastics & rubber industry machinery mfg.....	427	453	18 530	741 819	10 427	21 042	349 773	1 950 024	1 652 432	3 570 320	92 781
33329	Other industrial machinery mfg .....	3 713	3 923	166 707	6 576 864	93 988	189 263	2 926 426	16 824 353	15 216 963	31 792 194	1 328 794
333291	Paper industry machinery mfg .....	330	363	18 313	761 458	10 127	20 723	365 303	1 622 283	1 817 466	3 386 920	92 590
333292	Textile machinery mfg .....	454	476	13 511	445 381	8 496	16 880	234 110	1 026 304	742 909	1 766 419	55 108
333293	Printing machinery & equipment mfg.....	504	553	22 390	924 863	11 706	24 298	412 907	2 030 816	1 768 141	3 786 716	104 415
333294	Food product machinery mfg .....	573	593	18 898	711 852	11 436	22 511	353 259	1 581 509	1 290 673	2 857 928	79 890
333295	Semiconductor machinery mfg .....	244	258	40 104	1 702 788	20 918	42 170	611 134	6 010 313	5 358 601	11 162 764	683 608
333298	All other industrial machinery mfg.....	1 634	1 680	53 491	2 030 522	31 305	62 681	949 713	4 553 128	4 239 173	8 831 447	313 183
3333	Commercial & service industry machinery mfg.....	2 492	2 630	129 691	4 698 826	76 013	147 775	2 064 248	14 215 075	11 730 134	26 009 857	852 640
33331	Commercial & service industry machinery mfg .....	2 492	2 630	129 691	4 698 826	76 013	147 775	2 064 248	14 215 075	11 730 134	26 009 857	852 640
333311	Automatic vending machine mfg .....	117	122	8 220	216 397	6 047	12 310	123 726	604 438	718 270	1 327 998	31 938
333312	Commercial laundry, drycleaning, & pressing machine mfg .....	63	68	4 523	136 783	3 328	6 864	84 584	270 351	334 781	604 939	4 212
333313	Office machinery mfg .....	158	168	14 586	452 165	6 913	13 513	160 785	1 807 173	1 341 894	3 162 823	113 565
333314	Optical instrument & lens mfg .....	482	498	20 351	812 428	12 093	23 790	354 212	1 979 483	1 185 260	3 139 837	172 152
333315	Photographic & photocopying equipment mfg .....	412	421	24 143	1 074 710	14 397	26 024	482 750	4 478 703	3 774 865	8 290 986	281 641
333319	Other commercial & service industry machinery mfg.....	1 274	1 353	57 868	2 006 343	33 235	65 274	858 191	5 074 927	4 375 064	9 483 274	249 132
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	1 563	1 841	174 136	5 344 894	128 068	258 208	3 212 188	14 637 803	15 989 951	30 791 331	780 414
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	1 563	1 841	174 136	5 344 894	128 068	258 208	3 212 188	14 637 803	15 989 951	30 791 331	780 414
333411	Air purification equipment mfg .....	333	372	16 447	479 162	11 628	23 179	263 390	1 199 939	1 006 932	2 218 051	70 118
333412	Industrial & commercial fan & blower mfg .....	173	203	13 706	431 622	9 384	19 317	245 078	1 003 573	893 815	1 899 077	54 985
333414	Heating equipment (except warm air furnaces) mfg ..	441	468	24 597	755 114	16 088	31 910	375 893	2 068 353	1 650 129	3 707 615	89 555
333415	AC & warm air heating & commercial/industrial refrig equip mfg .....	646	798	119 386	3 678 996	90 968	183 802	2 327 827	10 365 938	12 439 075	22 966 588	565 756
3335	Metalworking machinery mfg ..	10 000	10 380	242 963	9 827 519	174 485	364 407	6 260 795	19 331 066	11 304 821	30 417 553	1 464 396
33351	Metalworking machinery mfg .....	10 000	10 380	242 963	9 827 519	174 485	364 407	6 260 795	19 331 066	11 304 821	30 417 553	1 464 396
333511	Industrial mold mfg .....	2 475	2 520	48 113	2 067 403	37 989	81 290	1 471 899	3 685 924	1 411 514	5 087 422	357 109
333512	Machine tool (metal cutting types) mfg .....	368	401	29 577	1 274 460	17 051	35 366	629 388	2 666 276	2 813 536	5 331 245	142 228
333513	Machine tool (metal forming types) mfg .....	219	224	14 141	596 804	9 092	18 745	344 827	1 285 781	958 357	2 247 954	92 014
333514	Special die & tool, die set, jig, & fixture mfg .....	4 667	4 744	79 994	3 226 074	62 075	128 703	2 259 920	5 938 346	2 381 528	8 237 755	500 675
333515	Cutting tool & machine tool accessory mfg .....	1 820	1 919	48 017	1 644 426	34 725	70 639	1 041 204	3 614 484	1 806 004	5 379 842	275 851
333516	Rolling mill machinery & equipment mfg.....	98	100	4 149	167 312	2 210	4 720	75 166	363 586	323 460	700 084	17 278
333518	Other metalworking machinery mfg.....	446	472	18 972	851 040	11 343	24 944	438 391	1 776 669	1 610 422	3 433 251	79 241

See footnotes at end of table.

Table 1-1d. **Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Com-panies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expenditures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
333	Machinery mfg—Con.											
3336	Engine, turbine, & power transmission equipment mfg ..	789	952	113 802	4 638 042	78 655	158 459	2 815 596	14 530 618	15 730 238	30 508 866	1 056 406
33361	Engine, turbine, & power transmission equipment mfg ..	789	952	113 802	4 638 042	78 655	158 459	2 815 596	14 530 618	15 730 238	30 508 866	1 056 406
333611	Turbine & turbine generator set unit mfg ...	68	86	19 529	910 316	11 099	23 488	476 082	2 841 914	2 865 746	5 854 113	177 434
333612	Speed changer, industrial high-speed drive, & gear mfg ..	237	268	16 182	594 251	11 231	22 744	361 273	1 461 859	935 938	2 391 269	116 178
333613	Mechanical power transmission equipment mfg ..	259	297	21 271	759 037	14 971	30 206	465 440	1 886 164	1 389 199	3 252 399	132 116
333618	Other engine equipment mfg ..	245	301	56 820	2 374 438	41 354	82 021	1 512 801	8 340 681	10 539 355	19 011 085	630 678
3339	Other general-purpose machinery mfg ..	6 347	6 979	354 510	13 197 126	219 707	446 343	6 591 433	31 332 176	31 018 562	62 119 271	1 764 229
33391	Pump & compressor mfg ....	723	869	67 263	2 571 850	39 547	80 512	1 234 907	6 640 563	7 120 168	13 683 351	389 341
333911	Pump & pumping equipment mfg ..	406	487	36 020	1 402 147	20 774	42 945	663 726	3 403 918	3 345 583	6 735 133	187 479
333912	Air & gas compressor mfg ..	269	313	24 582	925 655	14 532	29 740	452 547	2 646 794	3 072 383	5 651 176	169 494
333913	Measuring & dispensing pump mfg ..	63	69	6 661	244 048	4 241	7 827	118 634	589 851	702 202	1 297 042	32 368
33392	Material handling equipment mfg ..	1 741	1 859	92 600	3 330 707	59 856	123 674	1 734 759	7 238 952	9 493 479	16 646 105	415 238
333921	Elevator & moving stairway mfg ..	178	196	9 442	340 525	6 253	13 148	194 226	748 229	865 092	1 607 066	40 247
333922	Conveyor & conveying equipment mfg ..	864	897	39 421	1 531 932	23 261	49 446	701 113	3 069 183	3 304 898	6 364 898	149 846
333923	Overhead traveling crane, hoist, & monorail system mfg ..	283	305	17 784	564 482	11 795	22 780	316 898	1 451 136	1 711 464	3 135 815	85 247
333924	Industrial truck, tractor, trailer, & stacker machinery mfg ..	435	461	25 953	893 768	18 547	38 300	522 522	1 970 404	3 612 025	5 538 326	139 898
33399	All other general-purpose machinery mfg ..	3 938	4 251	194 647	7 294 569	120 304	242 157	3 621 767	17 452 661	14 404 915	31 789 815	959 650
333991	Power-driven handtool mfg ..	198	217	16 816	531 378	12 328	24 190	315 696	1 983 354	1 660 930	3 609 779	129 232
333992	Welding & soldering equipment mfg ..	218	250	22 505	918 180	14 640	29 279	485 833	2 027 004	2 453 362	4 444 978	122 871
333993	Packaging machinery mfg ..	644	687	32 109	1 278 345	17 280	34 867	552 062	2 706 010	2 116 512	4 900 477	122 256
333994	Industrial process furnace & oven mfg ..	378	404	17 575	657 327	10 313	23 295	288 549	1 514 761	1 365 736	2 869 912	65 381
333995	Fluid power cylinder & actuator mfg ..	282	320	23 030	898 428	15 109	31 597	525 990	2 155 657	1 398 733	3 542 331	111 723
333996	Fluid power pump & motor mfg ..	149	168	15 963	620 397	11 065	22 551	359 816	1 526 099	1 283 790	2 811 223	112 115
333997	Scale & balance (except laboratory) mfg ..	110	121	4 856	148 487	2 658	4 752	61 487	329 428	345 957	682 181	10 804
333999	All other miscellaneous general-purpose machinery mfg ..	2 005	2 084	61 793	2 242 027	36 911	71 626	1 032 334	5 210 348	3 779 895	8 928 934	285 268
334	Computer & electronic product mfg ..	15 492	17 435	1 691 146	72 483 848	877 002	1 746 314	26 117 539	252 629 768	187 875 131	439 381 300	24 768 490
3341	Computer & peripheral equipment mfg ..	1 870	1 972	240 307	10 899 245	99 974	200 934	3 181 898	44 111 746	66 057 526	110 054 987	3 455 102
33411	Computer & peripheral equipment mfg ..	1 870	1 972	240 307	10 899 245	99 974	200 934	3 181 898	44 111 746	66 057 526	110 054 987	3 455 102
334111	Electronic computer mfg ..	531	557	99 427	4 239 347	35 905	66 135	946 812	25 908 268	40 223 412	66 301 810	1 065 684
334112	Computer storage device mfg ..	203	212	42 012	1 910 310	20 428	42 986	622 177	7 386 606	8 036 209	15 354 924	1 386 644
334113	Computer terminal mfg ..	141	142	5 764	253 086	2 843	5 862	89 526	531 875	941 879	1 486 965	34 716
334119	Other computer peripheral equipment mfg ..	1 015	1 061	93 104	4 496 502	40 798	85 951	1 523 383	10 284 997	16 856 026	26 911 288	968 058
3342	Communications equipment mfg ..	2 078	2 308	294 865	13 826 630	135 313	261 498	4 524 867	48 040 124	35 767 800	82 852 421	3 210 281
33421	Telephone apparatus mfg ...	548	596	103 874	5 377 394	41 969	78 587	1 552 391	23 766 132	14 846 321	38 375 534	1 220 355
334210	Telephone apparatus mfg ..	548	596	103 874	5 377 394	41 969	78 587	1 552 391	23 766 132	14 846 321	38 375 534	1 220 355
33422	Radio & TV broadcasting & wireless communications equipment mfg ..	1 096	1 219	166 801	7 572 853	81 758	160 572	2 712 736	21 773 109	19 322 745	40 373 077	1 841 106
334220	Radio & TV broadcasting & wireless communications equipment mfg ..	1 096	1 219	166 801	7 572 853	81 758	160 572	2 712 736	21 773 109	19 322 745	40 373 077	1 841 106
33429	Other communications equipment mfg ..	461	493	24 190	876 383	11 586	22 339	259 740	2 500 883	1 598 734	4 103 810	148 820
334290	Other communications equipment mfg ..	461	493	24 190	876 383	11 586	22 339	259 740	2 500 883	1 598 734	4 103 810	148 820
3343	Audio & video equipment mfg ..	521	551	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	207 897
33431	Audio & video equipment mfg ..	521	551	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	207 897
334310	Audio & video equipment mfg ..	521	551	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	207 897

See footnotes at end of table.



Table 1-1d. **Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
334	Computer & electronic product mfg—Con.											
3344	Semiconductor & other electronic component mfg . . . .	5 652	6 271	587 313	22 142 761	373 814	748 573	9 740 797	94 354 658	45 183 238	139 083 873	14 033 279
33441	Semiconductor & other electronic component mfg . . . .	5 652	6 271	587 313	22 142 761	373 814	748 573	9 740 797	94 354 658	45 183 238	139 083 873	14 033 279
334411	Electron tube mfg . . . . .	147	157	21 656	726 712	16 774	34 208	488 835	1 568 417	2 273 565	3 789 948	159 621
334412	Bare printed circuit board mfg . . . . .	1 319	1 391	72 282	2 110 176	56 173	113 963	1 345 948	5 062 300	3 486 866	8 507 125	609 125
334413	Semiconductor & related device mfg . . . . .	993	1 097	199 037	10 101 783	106 484	216 061	3 531 168	64 135 313	15 055 008	78 479 496	11 531 803
334414	Electronic capacitor mfg . . . .	112	130	19 317	539 446	13 611	26 326	291 291	1 444 666	1 158 130	2 560 984	127 856
334415	Electronic resistor mfg . . . . .	90	116	11 624	305 365	8 461	16 207	174 409	801 153	422 703	1 240 008	55 435
334416	Electronic coil, transformer, & other inductor mfg . . . . .	426	448	18 999	450 514	14 784	29 613	261 187	936 268	589 896	1 524 064	36 859
334417	Electronic connector mfg . . . .	281	344	37 589	1 171 568	27 772	56 160	717 464	3 788 056	1 766 881	5 550 540	233 327
334418	Printed circuit assembly (electronic assembly) mfg . . . . .	673	729	115 076	4 007 610	68 441	137 697	1 600 815	10 592 734	16 116 426	27 103 573	862 227
334419	Other electronic component mfg . . . . .	1 781	1 859	91 733	2 729 587	61 314	118 338	1 329 680	6 025 751	4 313 763	10 328 135	417 026
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	4 845	5 425	484 438	22 843 455	209 238	415 620	7 092 891	58 284 906	30 799 004	89 465 709	3 005 990
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	4 845	5 425	484 438	22 843 455	209 238	415 620	7 092 891	58 284 906	30 799 004	89 465 709	3 005 990
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	490	547	55 044	2 635 085	24 724	50 363	741 374	7 619 290	3 995 354	11 581 624	432 245
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	579	689	188 325	9 977 629	65 102	126 006	2 627 879	23 155 326	9 051 326	32 661 495	1 021 048
334512	Automatic environmental control mfg . . . . .	297	318	21 470	666 464	14 922	29 904	371 348	1 737 147	1 195 244	2 943 971	114 952
334513	Industrial process control instrument mfg . . . . .	919	995	48 237	1 958 046	21 312	41 233	618 958	4 914 894	2 728 231	7 662 564	208 434
334514	Totalizing fluid meter & counting device mfg . . . . .	210	221	17 155	666 032	11 853	23 367	404 421	1 996 360	1 712 162	3 716 095	116 807
334515	Electricity measuring & testing instrument mfg . . . .	762	827	63 891	3 045 208	29 626	60 904	1 033 172	8 991 807	5 140 771	14 025 050	667 632
334516	Analytical laboratory instrument mfg . . . . .	637	677	36 820	1 728 708	13 660	27 460	495 787	4 111 184	2 752 613	6 899 852	207 449
334517	Irradiation apparatus mfg . . . .	134	153	13 547	642 088	5 657	12 299	187 134	2 075 258	1 884 903	3 970 454	75 942
334518	Watch, clock, & part mfg . . . .	145	146	6 333	178 487	4 482	9 229	93 587	550 979	380 479	921 827	26 215
334519	Other measuring & controlling device mfg . . . .	826	852	33 616	1 345 708	17 900	34 855	519 231	3 132 661	1 957 921	5 082 777	135 266
3346	Mfg & reproducing magnetic & optical media . . . . .	843	908	53 917	1 853 688	37 979	79 228	1 113 709	5 465 519	4 241 985	9 697 625	855 941
33461	Mfg & reproducing magnetic & optical media . . . . .	843	908	53 917	1 853 688	37 979	79 228	1 113 709	5 465 519	4 241 985	9 697 625	855 941
334611	Software reproducing . . . . .	112	123	7 868	302 863	4 212	9 721	192 472	786 164	421 955	1 209 207	133 552
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	492	528	25 180	747 551	19 430	40 123	512 482	2 379 126	1 411 504	3 809 652	282 507
334613	Magnetic & optical recording media mfg . . . . .	241	257	20 869	803 274	14 337	29 384	408 755	2 300 229	2 408 526	4 678 766	439 882
335	Electrical equipment, appliance, & component mfg . . . . .	5 839	6 930	593 802	18 972 741	432 273	860 344	11 368 753	57 215 610	54 987 295	112 116 267	3 598 750
3351	Electric lighting equipment mfg . .	1 211	1 328	74 987	2 204 508	55 744	112 190	1 360 134	7 038 950	5 692 530	12 710 091	406 549
33511	Electric lamp bulb & part mfg . . . . .	54	82	15 903	574 696	13 478	28 532	471 301	2 119 597	1 185 867	3 306 009	173 922
335110	Electric lamp bulb & part mfg . . . . .	54	82	15 903	574 696	13 478	28 532	471 301	2 119 597	1 185 867	3 306 009	173 922
33512	Lighting fixture mfg . . . . .	1 160	1 246	59 084	1 629 812	42 266	83 658	888 833	4 919 353	4 506 663	9 404 082	232 627
335121	Residential electric lighting fixture mfg . . . . .	543	558	17 681	430 595	13 194	26 142	234 477	1 166 774	1 087 396	2 255 251	59 419
335122	Commercial/industrial/ institutional electric lighting fixture mfg . . . . .	326	357	23 098	657 592	16 409	33 063	364 950	2 070 729	2 043 965	4 101 442	96 057
335129	Other lighting equipment mfg . . . . .	310	331	18 305	541 625	12 663	24 453	289 406	1 681 850	1 375 302	3 047 389	77 151
3352	Household appliance mfg . . . . .	265	333	97 232	2 916 830	79 808	155 504	2 122 738	10 082 604	11 292 048	21 394 445	501 700
33521	Small electrical appliance mfg . . . . .	144	171	27 505	748 041	20 111	37 601	434 845	2 869 205	3 026 039	5 907 367	171 302
335211	Electric housewares & household fan mfg . . . . .	119	138	17 058	411 389	12 948	24 212	251 100	1 666 523	1 860 256	3 532 813	85 862
335212	Household vacuum cleaner mfg . . . . .	25	33	10 447	336 652	7 163	13 389	183 745	1 202 682	1 165 783	2 374 554	85 440
33522	Major appliance mfg . . . . .	126	162	69 727	2 168 789	59 697	117 903	1 687 893	7 213 399	8 266 009	15 487 078	330 398
335221	Household cooking appliance mfg . . . . .	77	83	17 481	477 587	14 378	29 881	331 137	1 704 606	1 794 638	3 520 635	135 343
335222	Household refrigerator & home freezer mfg . . . . .	21	27	24 597	801 717	21 513	41 152	648 064	1 941 186	2 943 884	4 887 364	92 679
335224	Household laundry equipment mfg . . . . .	10	17	14 801	480 076	12 925	25 055	393 537	1 792 070	2 081 226	3 847 002	37 355
335228	Other major household appliance mfg . . . . .	32	35	12 848	409 409	10 881	21 815	315 155	1 775 537	1 446 261	3 232 077	65 021

See footnotes at end of table.

**Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
335	Electrical equipment, appliance, & component mfg—Con.											
3353	Electrical equipment mfg .....	2 517	2 930	209 311	6 845 920	144 608	285 279	3 776 159	19 241 142	16 989 463	36 233 634	988 597
33531	Electrical equipment mfg ....	2 517	2 930	209 311	6 845 920	144 608	285 279	3 776 159	19 241 142	16 989 463	36 233 634	988 597
335311	Power, distribution, & specialty transformer mfg .....	275	318	26 897	825 550	20 158	41 367	518 189	2 566 056	2 189 069	4 743 781	131 848
335312	Motor & generator mfg .....	559	718	74 171	2 172 250	57 853	115 681	1 456 910	6 123 289	6 027 446	12 174 434	322 255
335313	Switchgear & switchboard apparatus mfg .....	496	576	40 358	1 430 985	28 119	57 651	836 400	4 322 599	3 166 941	7 488 911	195 408
335314	Relay & industrial control mfg .....	1 241	1 318	67 885	2 417 135	38 478	70 580	964 660	6 229 198	5 606 007	11 826 508	339 086
3359	Other electrical equipment & component mfg .....	1 939	2 339	212 272	7 005 483	152 113	307 371	4 109 722	20 852 914	21 013 254	41 778 097	1 701 904
33591	Battery mfg .....	127	184	32 507	1 087 746	25 768	50 950	782 452	3 560 826	3 264 177	6 823 196	301 863
335911	Storage battery mfg .....	96	138	23 318	790 839	18 719	37 507	587 577	2 169 833	2 245 395	4 435 329	171 670
335912	Primary battery mfg .....	35	46	9 189	296 907	7 049	13 443	194 875	1 390 993	1 018 782	2 387 867	130 193
33592	Communication & energy wire & cable mfg .....	219	315	54 987	1 896 479	39 687	83 966	1 149 540	6 229 721	9 063 209	15 245 693	608 850
335921	Fiber optic cable mfg .....	36	40	8 630	366 045	6 233	12 341	217 617	1 373 769	1 453 212	2 772 428	192 201
335929	Other communication & energy wire mfg .....	193	275	46 357	1 530 434	33 454	71 625	931 923	4 855 952	7 609 997	12 473 265	416 649
33593	Wiring device mfg .....	604	738	68 447	2 080 658	50 100	99 717	1 241 203	6 008 044	4 313 753	10 328 708	380 729
335931	Current-carrying wiring device mfg .....	446	519	44 907	1 293 583	32 867	63 417	754 029	3 553 666	2 326 114	5 877 522	219 293
335932	Noncurrent-carrying wiring device mfg .....	168	219	23 540	787 075	17 233	36 300	487 174	2 454 378	1 987 639	4 451 186	161 436
33599	All other electrical equipment & component mfg .....	1 026	1 102	56 331	1 940 600	36 558	72 738	936 527	5 054 323	4 372 115	9 380 500	410 462
335991	Carbon & graphite product mfg .....	99	124	10 691	397 781	7 980	17 533	261 158	1 267 908	1 096 041	2 340 732	179 043
335999	All other miscellaneous electrical equipment & component mfg .....	928	978	45 640	1 542 819	28 578	55 205	675 369	3 786 415	3 276 074	7 039 768	231 419
336	Transportation equipment mfg ...	10 979	12 887	1 842 315	79 616 518	1 340 735	2 734 790	51 450 169	227 510 551	348 121 929	575 306 996	19 251 148
3361	Motor vehicle mfg .....	325	388	236 247	13 022 700	207 368	423 564	10 905 978	72 574 976	147 707 890	220 052 857	5 406 609
33611	Automobile & light duty motor vehicle mfg .....	253	304	207 838	11 804 330	184 298	377 637	9 966 886	68 314 274	137 408 998	205 543 825	5 276 317
336111	Automobile mfg .....	173	193	113 820	6 404 445	97 859	197 349	5 190 889	28 937 270	66 543 755	95 365 667	3 506 831
336112	Light truck & utility vehicle mfg .....	84	111	94 018	5 399 885	86 439	180 288	4 775 997	39 377 004	70 865 243	110 178 158	1 769 486
33612	Heavy duty truck mfg .....	75	84	28 409	1 218 370	23 070	45 927	939 092	4 260 702	10 298 892	14 509 032	130 292
336120	Heavy duty truck mfg .....	75	84	28 409	1 218 370	23 070	45 927	939 092	4 260 702	10 298 892	14 509 032	130 292
3362	Motor vehicle body & trailer mfg .....	1 922	2 103	125 015	3 386 084	100 081	197 511	2 322 488	7 693 717	15 335 443	23 007 668	441 084
33621	Motor vehicle body & trailer mfg .....	1 922	2 103	125 015	3 386 084	100 081	197 511	2 322 488	7 693 717	15 335 443	23 007 668	441 084
336211	Motor vehicle body mfg ...	747	808	42 773	1 225 282	32 582	65 628	834 399	2 995 537	6 008 290	9 008 512	228 212
336212	Truck trailer mfg .....	355	389	30 648	835 977	25 633	50 446	577 684	1 788 126	3 766 432	5 504 115	89 524
336213	Motor home mfg .....	75	87	17 801	499 374	14 484	29 409	351 814	1 178 051	2 689 793	3 894 350	50 170
336214	Travel trailer & camper mfg .....	761	819	33 793	825 451	27 382	52 028	558 591	1 732 003	2 870 928	4 600 691	73 178
3363	Motor vehicle parts mfg .....	4 767	5 827	779 913	30 960 765	629 873	1 305 668	23 163 024	73 797 867	104 504 958	178 511 569	9 489 436
33631	Motor vehicle gasoline engine & engine parts mfg ..	924	1 019	97 823	4 184 639	79 694	166 573	3 192 555	9 597 585	18 860 266	28 518 227	1 962 556
336311	Carburetor, piston, piston ring, & valve mfg .....	122	141	17 241	663 961	14 285	29 836	504 719	1 587 949	1 138 820	2 731 573	180 295
336312	Gasoline engine & engine parts mfg .....	810	878	80 582	3 520 678	65 409	136 737	2 687 836	8 009 636	17 721 446	25 786 654	1 782 261
33632	Motor vehicle electrical & electronic equipment mfg ..	981	1 058	114 196	3 981 222	87 803	169 589	2 707 223	9 574 476	11 940 488	21 633 391	909 229
336321	Vehicular lighting equipment mfg .....	99	107	16 624	631 881	12 990	26 628	445 699	1 612 341	1 714 351	3 336 152	169 380
336322	Other motor vehicle electrical & electronic equipment mfg .....	890	951	97 572	3 349 341	74 813	142 961	2 261 524	7 962 135	10 226 137	18 297 239	739 849
33633	Motor vehicle steering & suspension component (except spring) mfg .....	183	211	48 676	2 341 273	40 079	86 039	1 819 005	5 234 835	5 424 087	10 632 673	551 299
336330	Motor vehicle steering & suspension component (except spring) mfg .....	183	211	48 676	2 341 273	40 079	86 039	1 819 005	5 234 835	5 424 087	10 632 673	551 299
33634	Motor vehicle brake system mfg .....	203	271	43 146	1 503 210	34 319	71 184	1 077 541	4 046 472	6 952 820	10 981 044	484 338
336340	Motor vehicle brake system mfg .....	203	271	43 146	1 503 210	34 319	71 184	1 077 541	4 046 472	6 952 820	10 981 044	484 338
33635	Motor vehicle transmission & power train parts mfg .....	427	522	100 605	4 982 175	82 810	184 487	3 965 743	11 916 802	18 166 804	30 105 923	1 876 751
336350	Motor vehicle transmission & power train parts mfg ..	427	522	100 605	4 982 175	82 810	184 487	3 965 743	11 916 802	18 166 804	30 105 923	1 876 751
33636	Motor vehicle seating & interior trim mfg .....	280	363	47 885	1 532 785	38 220	78 425	1 100 800	4 272 286	7 612 024	11 869 070	310 711
336360	Motor vehicle seating & interior trim mfg .....	280	363	47 885	1 532 785	38 220	78 425	1 100 800	4 272 286	7 612 024	11 869 070	310 711
33637	Motor vehicle metal stamping .....	662	808	126 668	5 642 120	105 248	226 337	4 418 773	10 915 335	12 677 687	23 633 912	1 515 648
336370	Motor vehicle metal stamping .....	662	808	126 668	5 642 120	105 248	226 337	4 418 773	10 915 335	12 677 687	23 633 912	1 515 648

See footnotes at end of table.

Table 1-1d. **Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Com-panies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
336	Transportation equipment mfg—Con.											
3363	Motor vehicle parts mfg—Con.											
33639	Other motor vehicle parts mfg .....	1 321	1 575	200 914	6 793 341	161 700	323 034	4 881 384	18 240 076	22 870 782	41 137 329	1 878 904
336391	Motor vehicle air-conditioning mfg .....	58	60	21 522	1 053 943	17 504	38 953	821 334	2 701 288	2 875 912	5 626 596	188 566
336399	All other motor vehicle parts mfg .....	1 271	1 515	179 392	5 739 398	144 196	284 081	4 060 050	15 538 788	19 994 870	35 510 733	1 690 338
3364	Aerospace product & parts mfg .....	1 530	1 808	487 114	25 159 567	250 448	502 557	10 784 018	57 688 592	62 819 021	120 438 212	3 132 055
33641	Aerospace product & parts mfg .....	1 530	1 808	487 114	25 159 567	250 448	502 557	10 784 018	57 688 592	62 819 021	120 438 212	3 132 055
336411	Aircraft mfg .....	172	202	202 491	10 839 372	97 742	185 616	4 426 847	20 767 608	36 653 368	57 893 242	774 858
336412	Aircraft engine & engine parts mfg .....	281	372	84 373	4 298 767	49 122	100 963	1 971 070	11 679 669	11 437 209	22 859 270	679 800
336413	Other aircraft part & auxiliary equipment mfg ..	1 049	1 136	124 677	5 574 824	72 830	155 482	3 019 543	13 110 835	7 130 109	19 373 554	925 054
336414	Guided missile & space vehicle mfg .....	15	21	51 398	3 123 246	18 500	35 996	815 692	9 492 504	6 141 862	16 247 363	634 227
336415	Guided missile & space vehicle propulsion unit & parts mfg .....	19	27	17 738	1 031 920	7 903	15 557	363 756	2 062 154	1 061 215	3 101 378	89 321
336419	Other guided missile & space vehicle parts & auxiliary equip mfg .....	48	50	6 437	291 438	4 351	8 943	187 110	575 822	395 258	963 405	28 795
3365	Railroad rolling stock mfg .....	173	232	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	197 174
33651	Railroad rolling stock mfg .....	173	232	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	197 174
336510	Railroad rolling stock mfg ..	173	232	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	197 174
3366	Ship & boat building .....	1 630	1 737	138 237	4 382 998	100 012	198 183	2 713 663	8 602 771	7 576 924	16 150 259	365 644
33661	Ship & boat building .....	1 630	1 737	138 237	4 382 998	100 012	198 183	2 713 663	8 602 771	7 576 924	16 150 259	365 644
336611	Ship building & repairing ..	649	697	97 065	3 353 414	66 964	133 665	2 019 168	6 202 797	4 340 164	10 542 961	243 713
336612	Boat building .....	984	1 040	41 172	1 029 584	33 048	64 518	694 495	2 399 974	3 236 760	5 607 298	121 931
3369	Other transportation equipment mfg .....	758	792	41 777	1 385 269	28 976	53 916	764 526	3 807 345	5 080 439	8 883 036	219 146
33699	Other transportation equipment mfg .....	758	792	41 777	1 385 269	28 976	53 916	764 526	3 807 345	5 080 439	8 883 036	219 146
336991	Motorcycle, bicycle, & parts mfg .....	373	388	17 151	622 286	12 782	24 384	367 140	1 605 782	1 802 377	3 382 689	104 621
336992	Military armored vehicle, tank, & tank component mfg .....	37	42	5 773	267 525	2 696	5 455	113 732	543 119	475 163	1 063 668	17 298
336999	All other transportation equipment mfg .....	349	362	18 853	495 458	13 498	24 077	283 654	1 658 444	2 802 899	4 436 679	97 227
337	Furniture & related product mfg ..	19 838	20 738	603 668	14 986 222	484 600	936 574	10 217 032	34 839 134	29 462 249	64 299 098	1 744 608
3371	Household & institutional furniture & kitchen cabinet mfg .....	14 732	15 259	388 438	8 767 969	322 677	613 756	6 358 136	19 152 783	17 280 609	36 418 307	865 458
33711	Wood kitchen cabinet & counter top mfg .....	7 872	7 960	99 266	2 320 124	79 704	151 337	1 643 229	5 155 365	3 874 217	9 029 834	248 242
337110	Wood kitchen cabinet & counter top mfg .....	7 872	7 960	99 266	2 320 124	79 704	151 337	1 643 229	5 155 365	3 874 217	9 029 834	248 242
33712	Household & institutional furniture mfg .....	6 867	7 299	289 172	6 447 845	242 973	462 419	4 714 907	13 997 418	13 406 392	27 388 473	617 216
337121	Upholstered household furniture mfg .....	1 566	1 705	89 215	2 001 160	76 693	142 670	1 518 080	3 978 674	4 277 651	8 232 635	104 829
337122	Nonupholstered wood household furniture mfg ..	3 677	3 847	127 703	2 674 409	110 671	213 299	2 061 506	5 905 184	5 401 214	11 318 807	296 600
337124	Metal household furniture mfg .....	389	421	22 827	505 291	18 317	35 805	341 075	1 235 159	1 178 039	2 417 293	77 750
337125	Household furniture (except wood & metal) mfg .....	211	215	4 619	110 506	3 654	7 323	78 157	271 862	279 543	547 227	13 152
337127	Institutional furniture mfg ..	977	1 010	40 442	1 069 509	29 865	55 905	649 263	2 456 703	2 109 640	4 554 577	118 083
337129	Wood television, radio, & sewing machine cabinet mfg .....	99	101	4 366	86 970	3 773	7 417	66 826	149 836	160 305	317 934	6 802
3372	Office furniture (including fixtures) mfg .....	4 086	4 289	172 723	5 172 846	130 849	260 647	3 222 483	12 559 656	8 947 675	21 517 554	709 894
33721	Office furniture (including fixtures) mfg .....	4 086	4 289	172 723	5 172 846	130 849	260 647	3 222 483	12 559 656	8 947 675	21 517 554	709 894
337211	Wood office furniture mfg ..	639	672	30 106	766 094	24 229	49 390	528 848	1 744 454	1 276 399	3 021 800	106 032
337212	Custom architectural woodwork & millwork mfg .....	1 094	1 105	24 390	719 926	17 351	32 733	430 466	1 352 631	848 718	2 205 019	56 025
337214	Office furniture (except wood) mfg .....	303	360	44 414	1 625 080	32 440	69 641	982 053	5 018 286	3 306 678	8 341 389	325 469
337215	Showcase, partition, shelving, & locker mfg ...	2 073	2 152	73 813	2 061 746	56 829	108 883	1 281 116	4 444 285	3 515 880	7 949 346	222 368
3379	Other furniture related product mfg .....	1 071	1 190	42 507	1 045 407	31 074	62 171	636 413	3 126 695	3 233 965	6 363 237	169 256
33791	Mattress mfg .....	628	703	22 971	609 570	17 222	33 896	370 234	1 977 231	1 962 999	3 936 972	124 841
337910	Mattress mfg .....	628	703	22 971	609 570	17 222	33 896	370 234	1 977 231	1 962 999	3 936 972	124 841
33792	Blind & shade mfg .....	443	487	19 536	435 837	13 852	28 275	266 179	1 149 464	1 270 966	2 426 265	44 415
337920	Blind & shade mfg .....	443	487	19 536	435 837	13 852	28 275	266 179	1 149 464	1 270 966	2 426 265	44 415

See footnotes at end of table.

**Table 1-1d. Industry Statistics for Industry Groups and Industries: 1997—Con.**

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

NAICS code	Industry	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>Manufacturing—Con.</b>											
339	Miscellaneous mfg .....	30 335	31 476	725 396	21 618 204	492 558	938 191	10 970 663	61 452 548	38 263 345	99 729 798	3 432 599
3391	Medical equipment & supplies mfg .....	12 123	12 675	291 522	10 008 144	185 316	349 073	4 501 321	30 613 184	14 155 494	44 893 840	1 705 516
33911	Medical equipment & supplies mfg .....	12 123	12 675	291 522	10 008 144	185 316	349 073	4 501 321	30 613 184	14 155 494	44 893 840	1 705 516
339111	Laboratory apparatus & furniture mfg .....	371	381	16 626	609 237	9 055	18 054	240 692	1 344 180	874 568	2 220 507	59 796
339112	Surgical & medical instrument mfg .....	1 456	1 594	105 016	4 015 772	63 366	124 251	1 665 856	13 148 075	5 145 141	18 292 919	721 701
339113	Surgical appliance & supplies mfg .....	1 511	1 645	85 646	2 982 742	53 682	100 724	1 261 161	9 863 213	5 284 395	15 233 098	565 014
339114	Dental equipment & supplies mfg .....	849	873	17 806	605 765	11 646	21 694	281 684	1 717 856	957 869	2 666 147	71 565
339115	Ophthalmic goods mfg .....	520	573	25 274	770 994	16 982	33 503	404 597	2 387 162	1 096 286	3 497 595	213 706
339116	Dental laboratories	7 490	7 609	41 154	1 023 634	30 585	50 847	647 331	2 152 698	797 235	2 983 574	73 734
3399	Other miscellaneous mfg .....	18 232	18 801	433 874	11 610 060	307 242	589 118	6 469 342	30 839 364	24 107 851	54 835 958	1 727 083
33991	Jewelry & silverware mfg .....	3 737	3 769	61 104	1 531 249	43 226	78 930	847 312	3 991 201	4 343 722	8 303 714	113 945
339911	Jewelry (except costume) mfg .....	2 278	2 290	34 731	888 911	24 452	43 296	482 603	2 376 932	2 953 531	5 320 508	61 191
339912	Silverware & plated ware mfg .....	158	162	6 378	183 237	4 504	8 895	107 912	529 984	380 482	892 378	19 711
339913	Jewelers' material & lapidary work mfg .....	391	392	5 275	128 585	3 578	6 521	68 240	275 984	532 867	802 515	11 465
339914	Costume jewelry & novelty mfg .....	917	925	14 720	330 516	10 692	20 218	188 557	808 301	476 842	1 288 313	21 578
33992	Sporting & athletic goods mfg .....	2 477	2 562	68 586	1 826 631	49 893	94 756	1 004 057	5 866 075	4 755 192	10 633 528	344 190
339920	Sporting & athletic goods mfg .....	2 477	2 562	68 586	1 826 631	49 893	94 756	1 004 057	5 866 075	4 755 192	10 633 528	344 190
33993	Doll, toy, & game mfg .....	995	1 019	32 286	809 666	23 737	43 981	454 042	2 816 422	1 961 007	4 763 522	137 430
339931	Doll & stuffed toy mfg .....	239	239	3 386	63 582	2 520	4 525	41 548	194 644	104 614	300 678	3 936
339932	Game, toy, & children's vehicle mfg .....	756	780	28 900	746 084	21 217	39 456	412 494	2 621 778	1 856 393	4 462 844	133 494
33994	Office supplies (except paper) mfg .....	999	1 033	30 138	799 867	21 060	41 968	470 040	2 590 428	1 767 034	4 329 053	120 477
339941	Pen & mechanical pencil mfg .....	106	110	8 198	255 377	5 832	11 664	153 241	916 161	660 538	1 538 812	52 784
339942	Lead pencil & art good mfg .....	171	174	8 255	207 661	6 329	12 755	125 819	810 183	454 383	1 278 701	30 530
339943	Marking device mfg .....	617	633	8 012	194 792	4 795	9 564	102 191	423 895	240 414	661 173	20 754
339944	Carbon paper & inked ribbon mfg .....	106	116	5 673	142 037	4 104	7 985	88 789	440 189	411 699	850 367	16 409
33995	Sign mfg .....	5 580	5 710	83 813	2 412 225	54 475	104 509	1 217 571	4 637 205	3 375 219	7 997 974	236 476
339950	Sign mfg .....	5 580	5 710	83 813	2 412 225	54 475	104 509	1 217 571	4 637 205	3 375 219	7 997 974	236 476
33999	All other miscellaneous mfg .....	4 475	4 708	157 947	4 230 422	114 851	224 974	2 476 320	10 938 033	7 905 677	18 808 167	774 565
339991	Gasket, packing, & sealing device mfg .....	561	666	41 980	1 290 903	30 034	62 458	762 912	3 132 922	2 105 772	5 243 005	203 930
339992	Musical instrument mfg .....	552	574	13 249	357 842	10 810	21 900	243 531	836 529	483 633	1 324 529	34 565
339993	Fastener, button, needle, & pin mfg .....	240	252	8 021	211 561	5 767	13 113	125 760	503 706	347 605	838 928	48 458
339994	Broom, brush, & mop mfg .....	306	332	17 280	446 005	13 008	25 464	268 007	1 157 593	944 974	2 083 585	90 013
339995	Burial casket mfg .....	161	173	6 792	206 890	5 050	10 258	141 037	857 988	358 002	1 219 943	27 416
339999	All other miscellaneous mfg .....	2 660	2 711	70 625	1 717 221	50 182	91 781	935 073	4 449 295	3 665 691	8 098 177	370 183

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

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>For most industries, data are value of shipments. For industries 311411, 311412, 311421, 311422, 311711, 311712, 311941, 311999, 312140, 312210, 312221, and 312229, value of production is shown. For industry 336611, value of work done is shown.

**Table 1-2. Industry Statistics for Subsectors by Selected States: 1997**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
		Total	With 20 em-ploy-ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33, MANUFACTURING</b>												
<b>United States .....</b>	—	<b>362 829</b>	<b>119 748</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
Alabama .....	—	5 431	2 080	351 466	10 170 963	274 823	544 806	6 922 461	28 762 420	38 687 820	67 477 260	3 051 253
Alaska .....	—	486	101	10 722	329 324	8 669	18 942	236 311	1 153 433	2 104 778	3 283 362	129 586
Arizona .....	—	4 906	1 362	193 303	6 740 161	121 631	245 413	2 992 380	27 900 974	15 838 358	43 994 086	2 506 179
Arkansas .....	—	3 302	1 237	229 093	5 756 536	186 668	367 624	4 178 912	19 392 561	25 868 119	45 223 211	1 557 573
California .....	1	49 291	15 167	1 795 000	65 346 827	1 173 062	2 296 334	30 927 960	196 182 882	183 934 654	378 729 557	16 362 409
Colorado .....	1	5 466	1 252	172 307	6 170 883	114 457	224 728	3 156 218	20 609 367	19 311 738	39 812 716	1 698 936
Connecticut .....	1	5 829	1 914	250 848	10 401 916	152 009	315 068	4 877 952	27 298 479	19 789 500	46 864 998	1 861 915
Delaware .....	—	671	228	39 954	1 489 381	29 041	59 829	918 390	5 209 618	8 072 414	13 205 659	508 385
District of Columbia .....	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Florida .....	1	15 951	3 593	427 566	12 973 069	288 139	555 402	6 721 651	39 767 726	37 289 528	76 706 327	2 927 882

See footnotes at end of table.

Table 1–2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employ-ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>31-33, MANUFACTURING—Con.</b>												
Georgia	—	9 053	3 277	531 450	15 473 204	408 569	826 574	10 126 167	55 426 485	69 050 254	124 003 137	4 153 507
Hawaii *	3	919	159	15 093	404 629	9 891	18 343	231 349	1 261 303	1 939 948	3 189 892	100 669
Idaho	—	1 643	417	65 997	2 094 462	50 198	89 069	1 272 880	6 383 900	10 620 606	16 900 224	1 393 009
Illinois	—	17 912	6 538	883 358	31 686 026	626 460	1 278 831	18 625 974	95 342 475	104 853 848	199 893 976	7 344 742
Indiana	—	9 279	3 928	625 684	22 163 782	477 158	978 646	4 919 136	67 173 341	75 629 502	142 182 844	5 525 986
Iowa	—	3 743	1 407	236 865	7 604 137	177 032	356 074	4 942 866	28 615 467	34 116 111	62 511 051	1 972 637
Kansas	—	3 296	1 140	193 002	6 513 519	140 573	280 314	4 039 225	18 987 474	29 081 270	47 080 651	1 458 041
Kentucky	—	4 205	1 707	288 541	9 197 961	224 434	455 748	6 249 883	39 062 786	48 696 757	87 515 235	3 426 692
Louisiana	—	3 536	1 164	164 938	6 025 203	122 970	256 824	3 949 080	27 463 500	51 043 098	78 333 959	3 513 342
Maine	1	1 809	510	81 279	5 580 912	62 022	120 642	1 936 601	6 698 567	7 386 714	14 066 822	592 362
Maryland	1	3 986	1 204	163 145	5 810 016	109 090	218 330	3 233 951	18 705 455	17 772 765	36 442 590	1 462 124
Massachusetts	1	9 534	3 295	415 224	16 274 205	256 775	520 200	7 737 438	45 132 888	33 561 345	78 612 764	3 635 273
Michigan	—	16 005	5 716	828 396	34 209 572	626 881	1 299 481	23 377 382	93 366 860	120 632 388	213 996 415	9 397 575
Minnesota	—	8 064	2 709	379 938	13 069 217	257 910	513 688	7 222 024	36 567 010	39 525 947	75 988 847	3 186 779
Mississippi	—	2 996	1 274	227 001	5 580 639	182 043	360 610	3 891 078	17 184 299	22 608 005	39 821 220	1 407 858
Missouri	—	7 477	2 482	367 549	11 551 114	267 979	526 652	7 135 310	43 071 878	47 323 830	92 745 261	2 656 471
Montana	—	1 158	178	19 478	557 878	14 884	27 386	392 709	1 876 897	3 105 758	5 004 527	150 462
Nebraska	—	1 958	610	106 556	3 034 134	83 975	172 999	2 129 405	10 460 265	17 459 866	27 939 376	721 776
Nevada	1	1 610	403	37 473	1 164 476	26 040	51 573	670 749	3 260 969	3 025 752	6 297 518	311 537
New Hampshire	1	2 321	751	97 928	3 318 423	68 228	134 236	1 920 807	11 129 674	8 528 850	19 663 103	700 466
New Jersey	1	11 788	3 809	407 272	15 314 686	274 363	555 738	8 112 739	49 432 983	46 768 915	96 179 751	3 096 106
New Mexico	—	1 588	290	39 539	1 131 505	29 244	56 972	718 570	13 487 517	4 675 305	18 096 992	572 910
New York	1	23 862	6 653	778 833	26 319 424	533 795	1 049 318	14 577 589	75 858 926	68 693 723	145 019 529	5 626 038
North Carolina	—	11 276	4 600	771 474	21 202 451	599 534	1 192 012	13 992 938	79 790 807	83 038 366	162 805 526	5 214 477
North Dakota	1	702	188	21 948	804 532	16 359	31 447	386 806	2 008 799	3 297 443	5 295 480	201 019
Ohio	—	17 921	6 855	980 133	35 811 374	727 110	1 494 596	23 489 758	112 361 392	129 408 857	241 489 801	8 851 039
Oklahoma	—	4 079	1 187	163 812	4 967 086	122 352	241 863	3 222 983	17 226 649	20 228 803	37 423 437	1 082 614
Oregon	—	5 749	1 662	211 329	7 045 200	157 068	314 114	4 513 660	25 100 453	22 613 809	47 534 802	3 018 411
Pennsylvania	1	17 087	6 319	820 204	27 528 493	593 401	1 187 997	17 002 772	86 116 509	86 181 494	171 494 390	6 840 011
Rhode Island	1	2 526	696	74 666	2 264 507	52 213	103 787	1 265 607	5 462 493	4 882 795	10 388 007	397 298
South Carolina	—	4 437	1 860	343 452	10 312 408	265 645	536 612	6 814 088	33 343 682	37 125 249	70 384 095	3 405 410
South Dakota	—	884	289	46 287	1 155 969	33 041	64 773	703 545	4 352 357	7 811 807	12 164 706	262 798
Tennessee	—	7 384	2 888	482 639	14 329 669	374 140	741 421	9 454 387	44 527 758	54 195 539	98 649 891	3 853 294
Texas	—	21 763	6 753	952 332	32 718 983	663 356	1 340 712	18 093 008	127 579 894	169 487 234	296 782 631	12 505 676
Utah	—	2 855	857	121 899	3 765 895	86 686	169 255	2 246 557	11 689 959	13 346 669	24 953 032	948 033
Vermont	—	1 225	339	42 503	1 457 047	29 291	57 719	757 088	4 028 276	3 929 084	7 799 397	732 944
Virginia	—	5 970	2 032	370 242	11 549 863	274 381	549 218	7 243 796	43 180 687	40 772 089	83 872 063	3 423 260
Washington	—	7 781	2 145	327 207	12 970 253	212 981	424 129	7 042 745	31 534 413	48 896 972	78 507 552	2 628 861
West Virginia	—	1 499	512	72 425	2 453 353	55 378	112 022	1 655 632	8 980 535	8 941 129	17 947 576	914 250
Wisconsin	—	9 914	3 886	560 582	18 874 331	414 966	829 277	12 001 190	54 974 219	62 210 676	117 150 720	4 134 060
Wyoming	1	503	90	8 448	256 382	6 426	12 209	174 810	1 030 583	1 910 250	2 955 070	76 990
<b>311, FOOD MFG</b>												
<b>United States</b>	<b>1</b>	<b>26 302</b>	<b>8 726</b>	<b>1 466 956</b>	<b>38 366 240</b>	<b>1 112 307</b>	<b>2 234 216</b>	<b>25 185 751</b>	<b>163 675 301</b>	<b>258 537 984</b>	<b>421 737 017</b>	<b>10 799 165</b>
Alabama	1	272	136	34 935	673 916	27 555	50 119	451 318	1 956 983	4 164 336	6 121 426	145 894
Alaska	1	157	68	7 584	184 478	6 388	14 276	137 482	557 756	782 945	1 340 675	48 162
Arizona	1	243	67	8 576	215 806	6 026	11 933	127 060	1 002 607	1 511 895	2 523 096	101 437
Arkansas	—	277	145	50 542	979 407	43 837	86 775	794 569	3 655 447	7 106 362	10 739 722	222 380
California	1	3 490	1 151	153 171	4 195 702	114 747	224 290	2 657 203	16 638 652	22 984 021	39 533 880	1 109 817
Colorado	1	381	107	17 719	438 603	13 241	27 036	289 054	1 586 302	3 827 143	5 416 550	111 077
Connecticut	1	314	73	8 062	233 526	5 652	10 832	136 487	930 768	945 626	1 865 379	56 660
Delaware	—	73	28	9 262	194 534	8 095	15 669	149 205	546 412	1 493 319	2 037 592	32 349
District of Columbia	2	19	4	413	11 128	175	282	3 448	19 155	9 353	28 557	684
Florida	1	942	220	36 654	986 935	24 988	47 941	564 185	4 367 523	6 141 923	10 458 287	374 389
Georgia	1	526	241	60 006	1 396 096	48 740	97 127	965 474	6 265 465	9 059 830	15 312 021	362 092
Hawaii *	2	244	55	6 118	153 304	4 132	7 497	90 110	402 859	475 773	878 143	32 687
Idaho	—	154	73	16 238	372 867	13 674	25 520	273 828	1 431 958	2 560 208	3 977 685	155 921
Illinois	—	1 299	493	84 527	2 595 896	63 235	133 244	1 722 293	12 315 389	16 973 753	29 243 276	787 976
Indiana	—	446	188	33 062	968 187	22 865	46 976	552 012	4 609 400	6 030 733	10 620 502	315 140
Iowa	—	441	204	46 790	1 304 774	37 374	78 450	929 111	7 021 127	14 510 938	21 539 510	573 248
Kansas	—	304	116	30 934	793 013	24 809	55 419	568 486	2 463 226	10 012 242	12 459 037	162 670
Kentucky	—	244	109	19 188	491 956	14 457	32 048	319 088	2 248 306	3 294 453	5 495 741	144 991
Louisiana	1	399	145	15 684	396 260	11 159	21 609	234 944	1 585 000	3 335 322	4 887 648	112 609
Maine	3	182	42	5 995	135 725	4 338	7 924	89 655	518 495	553 181	1 070 711	47 517
Maryland	1	359	128	17 305	449 092	12 934	27 029	299 336	2 734 766	3 145 907	5 882 487	97 348
Massachusetts	1	753	191	21 006	583 828	13 421	25 185	311 650	1 988 671	2 528 138	4 523 407	126 084
Michigan	1	862	236	35 369	1 038 622	26 350	52 602	713 278	5 333 455	5 256 181	10 594 528	316 824
Minnesota	—	656	262	43 887	1 211 656	32 835	66 831	785 637	4 761 231	9 979 732	14 758 710	360 067
Mississippi	—	204	90	26 875	488 611	23 127	46 293	362 168	1 875 013	3 043 799	4 919 854	96 156
Missouri	—	495	190	39 796	960 092	30 820	63 898	682 671	5 348 569	7 764 043	13 090 996	290 547
Montana	1	145	18	2 024	52 348	1 303	2 140	29 955	151 410	314 902	466 563	26 917
Nebraska	—	291	127	33 652	826 410	27 910	61 525	639 306	3 181 091	11 154 263	14 320 133	241 807
Nevada	1	94	26	2 917	83 204	1						

**Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>311, FOOD MFG—Con.</b>												
South Carolina	1	195	70	16 257	348 318	13 469	25 278	256 423	1 412 359	1 732 500	3 141 095	50 109
South Dakota	1	90	33	7 639	174 263	6 335	12 942	130 663	509 323	1 795 835	2 293 558	31 919
Tennessee	1	338	150	35 817	1 004 842	25 291	50 020	600 675	4 217 533	5 356 732	9 503 309	344 146
Texas	—	1 560	484	83 640	2 096 882	63 242	135 643	1 360 986	9 600 096	16 353 014	25 919 876	558 897
Utah	1	245	91	12 663	303 011	9 524	17 256	195 432	1 008 485	1 992 966	3 007 483	74 153
Vermont	—	150	40	2 930	78 603	2 090	4 041	51 954	287 646	507 988	798 599	24 063
Virginia	1	436	154	33 702	784 426	26 039	51 928	542 045	4 050 164	4 973 749	9 002 379	241 531
Washington	1	728	278	35 422	929 466	27 462	53 377	632 006	3 352 758	5 241 077	8 584 086	241 180
West Virginia	1	84	21	4 955	118 538	3 729	7 591	66 313	297 836	515 925	813 419	9 266
Wisconsin	1	993	423	62 167	1 676 530	48 364	96 539	1 158 587	6 498 229	13 858 051	20 372 273	514 747
Wyoming	—	39	6	553	13 792	479	882	11 882	42 587	89 615	143 924	2 424
<b>312, BEVERAGE &amp; TOBACCO PRODUCT MFG</b>												
<b>United States</b>	<b>1</b>	<b>2 727</b>	<b>1 029</b>	<b>175 711</b>	<b>6 735 295</b>	<b>98 389</b>	<b>196 693</b>	<b>3 554 784</b>	<b>56 433 891</b>	<b>41 276 110</b>	<b>96 971 368</b>	<b>3 100 543</b>
Alabama	1	30	9	2 718	67 791	1 316	2 778	26 632	315 108	425 050	740 248	16 459
Alaska	2	8	2	c	D	D	D	D	D	D	D	2 809
Arizona	—	41	16	1 754	48 366	759	1 528	16 647	187 824	396 474	582 678	26 388
Arkansas	—	20	11	876	25 480	421	889	10 769	270 043	421 264	691 163	18 564
California	1	590	236	28 096	1 027 150	13 898	27 088	460 153	5 546 106	6 259 011	11 204 637	590 028
Colorado	—	71	20	6 601	358 410	3 388	6 863	163 820	1 587 076	935 515	2 526 840	103 177
Connecticut	1	24	5	363	11 992	215	403	5 942	86 504	98 426	182 953	3 833
Delaware	—	5	1	c	D	D	D	D	D	D	D	D
Florida	1	110	43	8 341	261 142	4 370	8 703	127 494	1 807 096	1 561 021	3 369 258	124 590
Georgia	—	62	26	7 296	369 000	4 886	9 863	234 291	4 495 400	2 172 718	6 668 863	206 150
Hawaii*	5	15	5	697	18 656	254	475	5 871	38 419	104 584	151 467	4 007
Idaho	1	24	2	224	5 345	149	209	2 482	28 927	50 467	79 284	1 608
Illinois	1	62	22	3 751	125 213	2 166	4 545	66 148	966 469	769 764	1 733 169	34 103
Indiana	3	44	21	3 159	112 607	1 785	3 459	56 601	771 619	850 587	1 597 929	42 998
Iowa	3	18	10	1 032	29 280	523	1 054	14 892	204 714	256 568	461 037	9 796
Kansas	2	23	9	909	29 694	361	788	8 995	111 706	277 132	387 568	13 766
Kentucky	—	55	33	6 711	267 634	4 345	8 949	161 442	3 935 174	1 312 257	5 204 386	48 810
Louisiana	—	48	14	2 460	75 699	890	1 737	21 606	160 400	367 202	526 892	9 015
Maine	1	18	7	579	17 653	279	463	7 476	56 903	68 671	125 573	18 494
Maryland	3	32	15	1 760	63 617	808	1 910	26 974	351 567	459 287	814 613	27 017
Massachusetts	1	51	13	2 715	101 996	1 314	3 034	50 607	566 395	631 836	1 201 173	35 619
Michigan	1	62	21	3 147	117 784	1 740	3 560	60 055	610 004	928 463	1 533 332	46 776
Minnesota	1	39	14	2 137	73 071	1 344	2 374	36 470	303 927	590 377	898 202	14 470
Mississippi	—	25	4	645	16 828	213	449	5 461	84 711	121 350	205 809	2 480
Missouri	—	48	17	3 898	194 588	2 605	5 313	124 482	1 290 444	925 066	2 213 419	169 406
Montana	3	24	6	322	7 775	193	314	4 162	24 904	58 780	83 615	2 824
Nebraska	2	11	5	502	15 766	235	486	5 209	68 658	150 097	219 964	D
Nevada	—	16	6	526	15 644	318	668	7 683	115 094	87 146	195 690	3 499
New Hampshire	—	14	5	782	38 415	579	959	26 712	224 283	200 501	424 682	D
New Jersey	—	49	15	3 698	170 497	2 491	5 328	104 096	1 322 307	976 462	2 303 949	86 652
New Mexico	1	21	2	223	4 838	158	274	2 774	19 413	79 513	99 104	3 676
New York	2	139	46	8 042	260 647	4 804	10 951	139 627	1 350 416	1 383 410	2 732 789	103 798
North Carolina	1	76	43	15 711	683 941	11 085	21 808	464 008	12 047 437	5 475 396	17 498 732	341 698
Ohio	—	78	35	6 372	235 941	3 368	6 592	128 614	1 657 232	1 554 488	3 212 114	139 252
Oklahoma	—	28	9	g	D	D	D	D	D	D	D	D
Oregon	2	96	27	2 268	67 228	1 150	2 039	31 501	259 474	362 818	619 956	18 127
Pennsylvania	3	132	48	7 097	232 866	4 301	8 392	131 801	1 248 740	1 445 543	2 688 067	65 431
Rhode Island	1	13	4	378	14 130	215	443	6 022	34 942	86 211	120 505	10 022
South Carolina	—	16	5	732	22 504	275	647	7 155	83 031	244 774	329 133	4 571
South Dakota	—	9	3	213	6 065	62	119	1 191	27 015	23 244	50 267	D
Tennessee	—	57	25	3 792	133 749	2 267	4 804	72 808	1 715 372	980 523	2 686 104	51 125
Texas	—	134	56	11 611	393 200	5 441	10 393	173 870	2 454 696	2 491 331	4 953 713	223 966
Utah	1	16	6	550	15 381	217	470	5 789	90 388	201 736	291 959	7 389
Vermont	5	15	c	D	D	D	D	D	D	D	D	D
Virginia	—	72	38	13 273	683 342	7 874	15 172	367 080	8 274 990	3 644 389	11 905 760	340 722
Washington	1	99	34	3 603	99 496	1 718	3 101	48 762	548 727	646 008	1 161 349	41 611
West Virginia	4	16	8	625	18 354	357	667	9 691	147 581	121 391	266 519	5 414
Wisconsin	—	53	16	2 845	127 361	2 100	4 354	97 516	557 570	696 143	1 258 956	28 679
Wyoming	5	8	4	259	4 164	99	187	2 140	63 020	52 388	114 954	1 237
<b>313, TEXTILE MILLS</b>												
<b>United States</b>	<b>1</b>	<b>4 694</b>	<b>2 136</b>	<b>391 899</b>	<b>10 058 482</b>	<b>332 385</b>	<b>695 900</b>	<b>7 439 112</b>	<b>23 696 948</b>	<b>34 876 899</b>	<b>58 707 401</b>	<b>2 691 704</b>
Alabama	—	108	82	20 584	510 836	18 680	39 307	430 738	1 377 627	2 139 126	3 514 903	126 812
Arizona	—	29	3	592	12 004	536	1 139	10 155	29 421	85 805	115 065	2 535
Arkansas	—	12	4	1 158	26 797	1 057	1 928	22 256	35 492	65 845	103 498	4 738
California	3	460	125	11 849	283 610	9 814	19 807	187 054	641 179	749 880	1 389 409	73 430
Colorado	6	28	6	444	10 244	373	689	7 027	18 934	14 319	33 399	D
Connecticut	2	55	25	3 746	122 884	2 940	6 410	75 844	302 492	343 386	648 293	23 805
Delaware	2	7	4	325	7 876	283	515	5 349	15 971	19 044	34 799	3 191
Florida	3	159	31	2 903	70 149	2 445	4 833	47 186	170 533	181 188	353 711	13 026
Georgia	1	298	195	52 196	1 252 449	46 270	98 261	1 017 148	2 907 737	4 719 401	7 638 274	288 235
Illinois	3	80	11	1 287	39 946	1 025	2 082	26 237	81 852	113 998	194 271	6 265
Indiana	1	28	7	456	9 690	380	716	6 418	20 827	35 636	56 699	743
Kansas	8	11	3	203	3 727	151	252	2 133	5 783	10 968	16 739	1 126
Kentucky	6	26	11	1 544	34 812	1 312	2 673	25 593	106 990	111 780	215 762	D
Louisiana	6	12	2	1 032	2 039	89	167	1 437	4 350	4 446	8 792	411
Maine	2	43	23	4 467	101 035	3 192	6 347	70 641	201 374	283 668	475 708	29 611
Maryland	5	40	10	1 657	41 379	1 335	2 913	26 353	109 771	103 056	216 771	8 938
Massachusetts	1	151	83	12 509	420 072	9 722	22 439	263 862	969 154	900 132	1 863 785	226 988
Michigan	4	43	7	542	14 239	452	860	9 982	38 169	60 861	98 935	3 692
Minnesota	2	39	8	712	23 600	494	997	11 750	45 636	63 027	107 113	3 320
Mississippi	—	27	8	2 592	71 187	2 351	4 917	60 071	261 623	227 644	483 403	10 567

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>313, TEXTILE MILLS—Con.</b>												
Missouri .....	5	36	11	661	17 511	513	999	11 012	43 796	53 390	96 910	3 128
Nebraska .....	2	11	3	196	3 863	170	330	3 071	10 273	5 790	15 924	D
New Hampshire .....	1	34	17	2 436	69 709	2 012	3 995	50 811	120 764	113 893	233 983	27 164
New Jersey .....	3	372	112	9 089	296 755	6 969	14 669	183 279	663 211	585 976	1 244 145	40 022
New York .....	2	609	159	14 787	494 359	11 131	22 982	262 912	1 311 797	1 633 840	2 979 007	93 086
North Carolina .....	—	716	525	112 477	2 738 937	96 589	204 593	2 092 068	6 185 540	11 007 860	17 229 691	811 244
Ohio .....	1	78	26	3 250	94 597	2 462	4 996	61 125	4 998 795	239 242	438 227	21 812
Oklahoma .....	1	22	4	418	8 824	360	657	6 572	18 408	23 157	40 142	1 953
Oregon .....	1	24	4	243	4 769	179	332	3 579	14 954	14 954	27 573	754
Pennsylvania .....	3	223	125	14 080	351 417	11 494	23 633	248 892	860 670	862 461	1 718 525	66 779
Rhode Island .....	—	92	52	5 932	167 527	4 590	9 573	107 280	358 574	459 923	826 393	24 367
South Carolina .....	—	341	263	64 615	1 620 442	56 025	115 676	1 266 894	3 865 781	6 061 016	9 986 330	421 275
South Dakota .....	—	4	1	D	D	D	D	D	D	D	D	D
Tennessee .....	—	105	63	12 181	333 417	10 247	20 672	241 463	773 273	985 173	1 757 474	75 318
Texas .....	2	100	27	6 024	129 205	5 227	10 029	100 934	370 373	285 564	650 450	20 063
Utah .....	9	14	1	105	2 005	89	139	1 436	3 800	2 811	6 587	391
Vermont .....	1	12	2	c	D	D	D	D	D	D	D	D
Virginia .....	1	88	60	20 726	513 358	17 603	37 371	388 533	1 191 876	1 841 246	3 063 160	174 190
Washington .....	1	48	7	928	26 648	715	1 456	18 362	62 171	121 095	182 328	20 508
West Virginia .....	4	9	4	423	11 149	334	699	7 345	21 595	22 176	44 042	1 932
Wisconsin .....	—	46	19	2 355	81 982	1 888	4 046	53 689	181 599	199 394	376 091	35 171
<b>314, TEXTILE PRODUCT MILLS</b>												
<b>United States .....</b>	<b>1</b>	<b>7 899</b>	<b>1 900</b>	<b>235 441</b>	<b>5 088 653</b>	<b>189 082</b>	<b>366 775</b>	<b>3 410 873</b>	<b>13 613 111</b>	<b>17 671 553</b>	<b>31 051 835</b>	<b>718 728</b>
Alabama .....	1	124	45	10 529	249 402	8 535	17 401	174 464	719 795	950 151	1 621 591	55 787
Arizona .....	3	99	14	1 086	22 373	863	1 593	14 094	56 625	39 733	95 885	3 176
Arkansas .....	—	66	14	2 297	54 823	1 909	3 625	40 070	144 095	119 481	262 977	17 189
California .....	2	1 073	243	22 540	453 325	17 803	32 007	274 437	1 011 790	1 253 206	2 251 326	48 976
Colorado .....	1	121	19	2 387	57 392	1 821	3 306	27 223	211 380	152 762	361 244	9 043
Connecticut .....	1	90	17	1 748	44 859	1 308	2 506	24 733	86 524	78 964	167 069	2 963
Delaware .....	2	17	6	D	D	D	D	D	D	D	D	612
Florida .....	2	543	74	7 111	127 416	5 848	9 934	82 841	263 894	247 199	508 155	15 356
Georgia .....	—	519	232	48 424	1 174 022	37 969	82 370	816 866	4 099 602	6 217 396	10 250 122	183 226
Hawaii * .....	7	28	1	c	D	D	D	D	D	D	D	291
Idaho .....	2	39	5	289	4 485	225	379	2 873	10 993	11 162	22 107	D
Illinois .....	3	266	61	5 642	120 131	4 327	8 041	74 958	259 031	263 528	527 249	13 434
Indiana .....	—	136	32	3 577	77 265	2 998	5 296	49 070	173 135	167 029	348 148	9 167
Iowa .....	—	59	9	1 235	29 791	910	1 583	14 776	73 381	104 714	173 659	2 952
Kansas .....	2	52	12	1 293	25 884	1 026	2 062	17 345	61 359	58 547	120 244	2 866
Kentucky .....	—	74	26	4 673	92 290	4 100	7 882	71 912	273 221	309 562	573 919	8 984
Louisiana .....	4	68	14	1 659	26 859	1 371	2 481	16 682	61 170	63 982	124 186	3 232
Maine .....	1	58	13	1 889	37 939	1 445	2 945	25 564	108 372	98 207	205 262	8 897
Maryland .....	3	108	11	804	17 315	595	9 997	9 589	30 577	25 237	55 952	D
Massachusetts .....	2	216	54	4 872	117 596	3 802	7 163	70 702	259 338	281 822	534 557	16 230
Michigan .....	2	206	28	2 826	61 572	2 272	4 251	37 502	116 397	155 103	271 461	8 069
Minnesota .....	1	127	18	1 668	30 879	1 294	2 321	19 358	61 363	61 412	122 238	4 035
Mississippi .....	—	58	25	3 343	66 181	2 777	5 894	48 156	194 873	199 864	392 926	10 794
Missouri .....	1	150	38	3 285	60 379	2 730	5 266	43 532	188 990	158 271	352 385	6 830
Montana .....	6	30	3	348	6 155	279	439	3 665	12 778	7 457	19 368	D
Nebraska .....	2	45	5	560	9 934	435	699	6 363	21 575	20 764	41 315	D
Nevada .....	3	31	5	350	5 884	282	508	4 363	13 599	8 544	22 276	1 372
New Hampshire .....	2	45	11	1 192	34 824	858	1 862	23 492	66 273	59 927	122 805	6 282
New Jersey .....	2	315	75	6 024	126 247	4 820	9 001	80 011	303 400	273 936	574 696	11 005
New York .....	2	593	126	11 111	231 669	8 565	14 862	132 898	478 879	593 040	1 066 794	24 802
North Carolina .....	1	362	141	23 090	485 693	19 608	39 819	364 358	1 310 383	1 579 010	2 890 266	49 075
North Dakota .....	—	14	4	270	4 510	190	299	2 410	11 454	8 994	20 005	585
Ohio .....	1	253	62	5 120	99 614	4 021	6 965	63 685	200 788	208 371	410 732	8 054
Oklahoma .....	1	77	13	1 476	25 039	1 173	1 853	16 127	70 937	95 887	167 716	3 577
Oregon .....	3	97	15	1 161	21 951	906	1 622	14 010	33 104	41 037	74 342	2 139
Pennsylvania .....	1	290	70	8 029	189 894	6 210	11 918	119 834	438 797	591 430	1 028 084	25 114
Rhode Island .....	2	54	12	1 271	27 271	1 120	2 043	18 068	59 171	48 539	107 264	3 420
South Carolina .....	—	167	75	14 687	318 392	12 594	25 094	241 598	822 851	1 584 981	2 339 668	56 585
South Dakota .....	1	29	8	857	13 695	589	1 099	7 761	25 171	27 397	50 376	971
Tennessee .....	—	166	58	6 268	135 059	5 183	9 734	92 122	403 396	422 455	825 212	38 958
Texas .....	1	415	95	9 514	162 961	7 622	13 609	107 307	346 895	397 337	732 926	15 858
Utah .....	1	65	24	1 447	29 563	1 104	1 879	18 303	68 259	85 676	157 470	2 812
Vermont .....	3	33	4	246	4 613	166	245	2 083	10 543	10 291	20 735	D
Virginia .....	—	152	29	4 175	86 833	3 412	6 471	63 928	192 050	367 957	562 321	15 062
Washington .....	1	176	29	2 159	53 791	1 666	3 150	32 359	111 530	93 639	204 675	4 530
West Virginia .....	1	16	4	167	2 744	131	204	2 002	8 965	16 684	25 594	482
Wisconsin .....	1	132	20	2 049	47 653	1 693	3 197	29 144	111 468	88 280	197 021	12 135
<b>315, APPAREL MFG</b>												
<b>United States .....</b>	<b>1</b>	<b>16 989</b>	<b>6 354</b>	<b>710 796</b>	<b>12 582 352</b>	<b>592 290</b>	<b>1 060 314</b>	<b>8 799 442</b>	<b>33 780 193</b>	<b>34 683 500</b>	<b>68 018 116</b>	<b>941 178</b>
Alabama .....	1	367	225	37 272	556 943	32 574	55 743	438 850	1 402 050	1 508 848	2 884 962	51 059
Arizona .....	3	82	15	1 639	23 225	1 208	2 117	15 994	29 921	34 507	67 154	1 511
Arkansas .....	1	80	48	8 409	124 762	7 719	13 959	108 841	283 996	184 129	469 361	5 414
California .....	2	5 102	1 629	128 660	2 233 530	108 102	184 932	1 479 577	6 133 768	6 671 375	12 693 578	223 513
Colorado .....	2	113	22	1 884	36 138	1 468	2 939	24 052	65 556	43 736	109 784	2 618
Connecticut .....	1	73	22	2 040	45 090	1 642	3 190	28 299	187 857	175 158	356 397	D
Delaware .....	8	12	3	e	D	D	D	D	D	D	D	D
Florida .....	1	658	188	18 793	301 567	15 467	25 931	203 433	901 216	869 415	1 738 377	19 913
Georgia .....	1	340	192	32 388	502 044	15 467	47 724	370 922	1 547 720	1 728 159	3 219 834	34 562
Hawaii * .....	1	93	21	1 555	28 924	1 221	2 250	17 243	70 638	62 975	133 900	1 833

See footnotes at end of table.

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employ-ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>315, APPAREL MFG—Con.</b>												
Idaho . . . . .	1	17	6	282	4 128	247	418	3 095	7 057	4 687	12 145	1 183
Illinois . . . . .	2	270	87	10 255	216 522	7 984	15 357	128 132	453 956	354 585	808 210	23 997
Indiana . . . . .	1	81	26	2 525	51 194	1 887	3 754	29 432	120 849	123 064	247 017	5 113
Iowa . . . . .	—	61	25	3 538	66 735	2 693	4 977	49 085	114 204	125 041	242 186	4 544
Kansas . . . . .	—	44	16	1 480	23 779	1 227	2 276	17 746	60 559	66 946	124 899	1 249
Kentucky . . . . .	—	119	91	23 360	397 801	20 756	37 216	320 643	1 160 169	1 067 590	2 195 155	20 161
Louisiana . . . . .	—	87	46	9 328	158 543	8 678	15 217	133 578	1 155 020	622 678	1 744 086	10 784
Maine . . . . .	2	20	8	841	13 056	706	1 333	10 641	22 520	28 410	49 436	1 402
Maryland . . . . .	2	92	32	3 861	71 702	3 221	5 891	48 837	144 461	125 266	270 704	3 560
Massachusetts . . . . .	3	237	103	10 336	220 720	8 606	15 988	145 532	431 582	497 819	911 713	9 017
Michigan . . . . .	1	116	15	1 232	21 921	1 029	1 976	15 361	64 152	97 519	163 447	1 294
Minnesota . . . . .	1	117	26	2 442	45 691	1 992	4 029	32 497	76 767	68 575	143 317	2 336
Mississippi . . . . .	1	143	113	20 199	282 271	17 379	31 694	220 670	818 245	834 574	1 643 525	16 820
Missouri . . . . .	1	198	107	12 735	188 667	10 886	18 853	143 208	414 968	296 864	694 469	10 057
Montana . . . . .	5	18	1	110	1 123	98	170	871	2 181	1 507	3 647	D
Nebraska . . . . .	—	26	10	987	17 279	833	2 608	12 824	68 417	51 523	118 763	D
Nevada . . . . .	6	27	4	263	3 965	214	388	2 781	6 661	6 755	13 357	D
New Hampshire . . . . .	2	47	19	1 515	28 285	1 284	2 078	17 574	51 019	57 962	108 239	D
New Jersey . . . . .	1	604	233	22 319	524 485	16 472	31 549	282 015	1 114 140	1 296 506	2 435 060	25 558
New Mexico . . . . .	—	31	8	1 816	37 154	1 671	3 111	33 879	156 932	134 768	292 132	4 871
New York . . . . .	4	3 933	1 170	90 693	1 803 385	68 232	117 639	1 060 981	4 438 384	5 136 868	9 587 525	107 636
North Carolina . . . . .	1	752	481	1 337 162	21 362	62 387	117 258	1 012 382	3 461 788	3 846 877	7 332 757	134 215
Ohio . . . . .	2	154	44	4 555	102 741	3 629	7 024	62 289	327 604	249 726	570 561	7 153
Oklahoma . . . . .	1	96	41	5 673	89 786	4 969	9 095	73 436	175 911	266 682	437 162	4 260
Oregon . . . . .	2	81	18	1 735	30 237	1 537	2 983	23 685	61 843	41 239	101 664	1 631
Pennsylvania . . . . .	2	749	370	40 745	755 346	33 550	61 228	544 421	2 010 660	1 757 342	3 714 766	43 339
Rhode Island . . . . .	—	23	7	468	10 515	323	557	4 906	24 999	18 700	43 042	D
South Carolina . . . . .	1	217	152	17 560	276 833	14 832	27 397	207 869	778 182	702 779	1 466 580	20 440
South Dakota . . . . .	—	18	9	f	D	D	D	D	D	D	D	D
Tennessee . . . . .	1	351	226	36 357	611 474	31 145	57 053	442 250	1 533 433	1 559 847	3 086 993	42 106
Texas . . . . .	—	673	222	38 417	642 769	33 066	57 525	488 295	2 156 008	2 248 753	4 336 091	45 770
Utah . . . . .	1	63	23	2 039	31 960	1 667	2 974	23 414	54 439	44 139	101 020	703
Vermont . . . . .	1	38	9	1 031	17 142	729	1 464	11 311	49 880	48 559	94 319	D
Virginia . . . . .	—	222	124	25 877	449 773	22 763	42 590	364 508	1 188 247	1 142 911	2 332 425	33 199
Washington . . . . .	1	169	52	4 900	93 856	4 352	8 520	71 646	176 606	209 127	383 568	4 092
West Virginia . . . . .	—	26	16	1 911	25 013	1 724	2 850	21 124	121 962	111 534	223 918	D
Wisconsin . . . . .	1	111	47	3 160	57 865	2 488	4 566	35 475	104 089	97 458	201 706	2 827
Wyoming . . . . .	2	12	1	c	D	D	D	D	D	D	D	D
<b>316, LEATHER &amp; ALLIED PRODUCT MFG</b>												
<b>United States . . . . .</b>	<b>—</b>	<b>1 861</b>	<b>597</b>	<b>85 115</b>	<b>1 832 341</b>	<b>68 733</b>	<b>133 908</b>	<b>1 185 870</b>	<b>5 407 999</b>	<b>5 480 529</b>	<b>10 876 510</b>	<b>167 254</b>
Alabama . . . . .	6	19	1	119	1 993	92	152	1 522	4 663	5 890	10 633	178
Arizona . . . . .	1	25	2	208	4 503	156	270	2 248	14 863	10 722	26 020	111
Arkansas . . . . .	1	28	17	3 128	46 158	2 842	4 495	33 429	94 649	88 191	184 592	899
California . . . . .	2	233	72	7 497	143 454	6 160	11 828	94 332	343 651	285 455	631 899	10 442
Colorado . . . . .	—	32	5	1 622	54 024	945	2 088	19 538	382 634	206 222	600 553	D
Connecticut . . . . .	—	9	3	274	17 364	128	472	2 896	79 578	41 483	122 565	D
Florida . . . . .	—	76	20	3 720	62 368	3 130	6 432	41 928	155 806	149 821	299 865	2 841
Georgia . . . . .	2	26	4	461	6 767	326	610	4 960	18 942	21 729	41 227	635
Idaho . . . . .	—	11	1	210	4 466	183	392	3 468	17 357	7 876	22 960	285
Illinois . . . . .	—	52	17	2 760	59 226	2 403	5 030	40 255	133 973	131 992	262 255	6 067
Indiana . . . . .	—	30	13	1 574	30 616	1 337	2 661	22 451	77 354	68 342	146 449	1 583
Iowa . . . . .	2	20	9	f	D	D	D	D	D	D	D	5 749
Kansas . . . . .	—	10	3	338	6 446	284	585	4 667	14 489	66 898	81 266	1 909
Kentucky . . . . .	1	17	8	1 203	25 436	1 121	2 428	23 249	154 768	54 319	210 150	D
Louisiana . . . . .	4	11	5	269	4 355	162	319	2 751	4 402	9 366	13 579	313
Maine . . . . .	—	43	24	6 556	143 910	5 521	10 458	100 633	418 840	665 746	1 072 091	11 415
Maryland . . . . .	—	12	5	1 321	41 543	1 151	1 996	34 564	172 285	183 785	354 828	D
Massachusetts . . . . .	1	112	38	3 800	86 345	2 969	5 840	56 028	302 590	218 441	516 571	10 480
Michigan . . . . .	—	26	13	3 133	77 304	2 727	5 445	60 183	212 511	442 330	655 941	11 330
Minnesota . . . . .	—	29	8	2 164	74 786	1 724	3 755	47 422	204 101	179 828	376 033	5 566
Mississippi . . . . .	3	9	4	351	6 498	303	543	4 705	21 350	19 234	40 719	276
Missouri . . . . .	—	63	33	3 968	73 274	3 305	6 276	49 634	136 335	175 866	313 031	7 553
Nebraska . . . . .	2	7	5	f	D	D	D	D	D	D	D	D
New Hampshire . . . . .	—	25	13	1 525	39 567	1 188	2 296	20 469	275 837	104 195	387 698	12 293
New Jersey . . . . .	2	56	18	2 632	73 996	2 003	4 277	39 666	147 090	176 806	322 996	3 480
New York . . . . .	1	228	58	5 673	124 192	4 140	8 506	75 903	325 632	304 593	622 813	6 981
North Carolina . . . . .	—	44	15	3 350	80 954	2 665	5 639	54 261	185 579	218 024	403 669	4 541
Ohio . . . . .	—	36	16	2 105	43 297	1 625	3 017	25 774	147 502	115 491	260 056	2 123
Oklahoma . . . . .	1	25	6	f	D	D	D	D	D	D	D	D
Oregon . . . . .	1	29	5	457	10 013	366	699	6 456	24 480	15 280	39 648	1 960
Pennsylvania . . . . .	—	73	26	5 199	105 925	4 426	8 464	78 783	325 363	364 577	676 577	7 106
Rhode Island . . . . .	1	14	5	343	6 854	219	408	4 134	21 306	11 340	32 775	D
Tennessee . . . . .	—	43	21	2 839	52 449	2 417	4 498	37 335	138 544	113 302	253 999	5 248
Texas . . . . .	1	176	43	6 342	112 190	4 941	9 307	54 071	269 116	269 453	551 360	5 410
Utah . . . . .	4	13	5	220	3 298	182	281	2 251	12 165	11 238	23 199	264
Virginia . . . . .	6	18	5	604	7 219	503	885	5 278	11 371	11 006	25 058	763
Washington . . . . .	—	31	7	775	15 117	556	1 065	9 256	78 530	66 749	140 457	1 072
West Virginia . . . . .	1	4	4	717	11 261	649	1 202	9 545	19 817	26 290	46 319	D
Wisconsin . . . . .	—	72	34	5 447	131 179	4 061	7 768	80 802	360 280	387 568	758 755	14 271

See footnotes at end of table.



Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E1	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>321, WOOD PRODUCT MFG</b>												
United States	1	17 367	5 809	570 034	14 319 193	476 225	948 438	10 567 993	33 493 004	55 299 641	88 470 180	2 869 234
Alabama	1	485	225	25 836	622 322	21 601	43 697	447 794	1 486 263	2 891 515	4 362 729	127 977
Alaska	1	32	3	279	10 044	229	472	7 463	26 470	28 829	50 439	1 371
Arizona	1	204	86	8 348	193 645	6 637	12 934	131 583	412 362	560 455	977 117	14 893
Arkansas	1	391	140	14 434	353 615	12 556	26 270	287 848	894 129	1 700 685	2 564 418	196 384
California	1	1 183	414	39 191	1 014 086	32 611	65 439	744 979	2 478 932	3 709 972	6 168 965	140 169
Colorado	2	219	49	4 033	98 695	3 222	6 412	65 677	199 758	305 140	503 339	13 771
Connecticut	1	115	21	1 466	46 119	1 141	2 412	30 933	98 161	96 586	194 834	4 894
Delaware	7	26	4	809	18 383	686	1 415	15 096	42 029	48 670	90 248	1 678
Florida	1	519	186	15 207	357 359	12 258	24 621	246 126	818 672	1 431 651	2 250 967	52 953
Georgia	1	554	221	27 347	678 255	22 736	46 147	493 967	1 642 828	3 375 371	5 005 917	147 767
Hawaii *	—	24	3	c	D	D	D	D	D	D	D	D
Idaho	1	204	80	9 110	257 323	7 859	15 815	204 370	602 464	1 383 081	1 963 520	31 878
Illinois	2	457	123	9 391	227 010	7 382	13 941	155 301	488 254	634 272	1 124 061	29 301
Indiana	1	602	222	21 672	561 618	17 892	35 076	410 088	1 229 580	1 928 693	3 147 032	72 031
Iowa	2	160	49	8 257	223 553	6 825	13 206	160 056	553 625	500 755	1 054 594	41 128
Kansas	2	101	33	3 152	67 991	2 575	4 765	47 901	152 652	228 882	379 400	7 519
Kentucky	1	438	137	11 076	220 788	9 377	17 594	166 634	522 606	698 439	1 211 832	62 932
Louisiana	1	212	83	8 935	233 649	7 713	17 297	187 313	615 247	1 228 558	1 838 610	59 084
Maine	1	255	89	7 930	189 469	6 599	13 494	141 625	395 856	538 855	925 361	50 368
Maryland	2	151	50	4 015	96 196	3 224	6 460	68 139	211 704	377 033	586 249	12 962
Massachusetts	2	229	38	2 809	72 691	2 096	4 101	46 865	156 876	234 838	391 353	9 557
Michigan	1	626	172	13 687	360 998	11 120	21 509	246 780	843 977	1 207 433	2 045 748	82 542
Minnesota	—	362	109	15 084	499 120	12 084	24 096	359 818	1 040 514	1 447 628	2 491 079	62 595
Mississippi	—	375	166	17 390	434 296	15 107	31 431	335 443	1 197 128	2 008 975	3 199 914	118 938
Missouri	2	582	123	9 297	188 035	7 648	13 647	131 700	419 598	578 654	996 356	25 819
Montana	—	154	46	5 204	152 826	4 645	9 109	130 717	364 331	640 319	1 008 580	23 283
Nebraska	3	81	16	2 469	59 420	1 950	3 795	40 323	113 320	213 146	326 207	7 068
Nevada	3	47	13	1 118	26 659	895	1 734	18 379	67 690	72 365	140 597	2 563
New Hampshire	2	178	54	3 588	94 291	2 835	5 657	63 868	223 058	254 848	475 121	17 570
New Jersey	2	160	36	2 618	77 360	1 997	4 922	44 936	169 975	224 853	391 581	7 563
New Mexico	4	81	22	1 502	33 203	1 249	2 286	23 105	79 504	112 635	193 120	3 469
New York	3	575	152	10 374	250 226	8 370	16 387	175 289	574 684	766 951	1 341 966	43 557
North Carolina	1	867	381	33 319	819 051	28 192	55 945	598 658	1 941 933	2 792 906	4 726 252	203 437
North Dakota	1	24	7	1 066	23 446	842	1 609	15 879	49 167	56 660	106 989	5 371
Ohio	1	699	204	19 791	445 802	16 696	31 920	337 276	1 097 895	1 275 492	2 360 770	95 639
Oklahoma	1	138	34	2 840	64 875	2 461	4 897	53 714	179 579	228 335	405 267	13 210
Oregon	—	598	299	37 667	1 123 884	32 778	67 857	894 968	2 574 497	5 806 370	8 355 417	250 783
Pennsylvania	1	995	261	24 310	574 250	19 920	37 055	410 130	1 363 596	1 926 007	3 275 458	90 835
Rhode Island	1	47	8	526	13 398	434	852	9 770	28 558	72 553	101 319	1 736
South Carolina	—	296	122	11 150	281 189	9 353	19 057	202 691	723 061	1 299 036	2 016 230	58 325
South Dakota	1	46	19	1 443	35 467	1 231	2 418	27 432	79 864	123 248	204 199	5 185
Tennessee	1	654	176	18 268	406 799	15 576	29 517	297 293	939 525	1 457 699	2 383 577	66 381
Texas	1	755	270	29 117	682 813	24 839	50 080	507 766	1 524 613	2 793 686	4 289 822	137 784
Utah	1	136	30	2 115	42 189	1 685	2 981	30 177	82 694	132 368	214 496	7 504
Vermont	1	140	39	3 330	82 220	2 737	5 605	61 843	183 510	238 773	419 582	13 756
Virginia	1	581	226	20 199	485 737	16 437	33 562	343 970	1 136 189	1 671 789	2 795 007	133 805
Washington	1	589	217	22 251	652 057	18 889	38 410	506 694	1 475 782	2 995 949	4 445 865	165 094
West Virginia	1	289	99	7 769	159 691	6 871	13 290	127 540	406 856	670 166	1 074 260	40 675
Wisconsin	—	682	238	28 024	679 713	23 118	45 212	490 475	1 523 352	2 227 905	3 734 573	103 024
Wyoming	2	48	14	1 025	22 895	906	1 781	18 875	49 283	80 205	128 100	2 611
<b>322, PAPER MFG</b>												
United States	—	5 868	3 975	574 274	22 311 971	440 096	935 795	15 187 973	70 300 235	80 189 518	150 295 890	8 595 133
Alabama	—	89	69	19 031	966 527	15 029	34 513	720 383	2 919 673	3 346 014	6 253 610	635 509
Alaska	—	2	1	c	D	D	D	D	D	D	D	D
Arizona	—	39	26	2 948	105 276	2 347	5 100	71 182	317 537	409 832	727 184	32 099
Arkansas	—	85	63	13 026	495 841	10 644	22 643	377 154	1 770 259	1 967 612	3 735 035	238 007
California	1	576	342	34 328	1 260 177	25 600	53 813	817 999	3 360 749	4 656 702	8 005 518	258 377
Colorado	1	55	31	3 054	105 395	2 375	4 930	69 597	309 059	388 055	691 907	23 773
Connecticut	—	90	61	6 069	238 369	4 660	9 904	158 381	1 005 189	835 816	1 839 440	35 339
Delaware	—	9	9	1 992	71 020	1 539	3 363	47 793	393 449	224 048	635 704	D
Florida	—	166	87	12 618	514 277	9 820	20 362	360 262	1 614 477	2 244 762	3 826 968	182 478
Georgia	—	211	156	27 190	1 077 199	21 268	46 012	764 894	4 131 298	4 623 694	8 718 775	693 057
Hawaii *	1	6	2	136	5 068	94	183	3 161	14 109	12 654	26 466	334
Idaho	—	9	6	1 979	87 220	1 588	3 264	65 374	291 407	325 336	613 265	23 379
Illinois	—	370	261	28 646	996 393	21 175	45 641	631 205	2 798 862	2 995 639	5 784 181	169 640
Indiana	—	167	127	13 272	431 035	9 828	20 359	275 865	1 187 960	1 592 515	2 746 920	90 557
Iowa	—	44	36	5 480	183 930	4 394	9 213	130 708	705 961	834 045	1 531 237	36 539
Kansas	—	37	25	3 220	101 688	2 422	5 199	69 416	208 495	338 070	544 885	23 010
Kentucky	—	92	68	10 559	369 968	8 249	18 178	256 479	1 319 388	1 721 868	3 012 099	409 536
Louisiana	—	53	43	10 891	477 072	8 685	18 880	339 521	1 882 556	2 374 765	4 281 305	208 743
Maine	—	34	26	13 801	665 786	11 040	25 051	493 718	2 065 768	2 386 378	4 460 440	241 627
Maryland	1	55	37	7 553	259 278	5 826	11 529	176 656	568 882	581 516	1 166 427	196 127
Massachusetts	—	231	164	19 166	703 674	13 773	30 381	425 251	1 943 203	2 107 136	4 007 380	151 376
Michigan	—	222	159	19 469	792 041	14 614	31 566	528 942	2 244 652	2 554 340	4 837 044	207 661
Minnesota	—	129	81	15 295	623 636	11 833	24 340	436 759	1 925 026	2 092 173	4 041 027	346 950
Mississippi	—	62	45	9 140	355 191	7 199	15 111	255 162	1 096 190	1 588 203	2 684 814	105 137
Missouri	—	136	93	12 783	413 785	10 266	20 845	294 023	1 371 608	1 597 503	2 993 140	90 510
Montana	—	4	3	f	D	D	D	D	D	D	D	D
Nebraska	—	19	14	1 426	49 487	1 135	2 385	32 845	126 239	170 472	2	

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	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)	
	E1	Total	With 20 employees or more	Number2	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>322, PAPER MFG—Con.</b>												
New Mexico	3	12	4	517	15 642	444	657	10 996	31 295	48 305	80 605	7 220
New York	1	401	235	26 776	966 821	20 430	42 040	624 691	2 357 257	2 728 857	5 090 569	309 951
North Carolina	—	196	148	21 414	826 379	16 477	34 934	561 129	2 169 990	2 988 799	5 161 755	388 379
Ohio	—	374	259	29 936	1 127 279	22 507	49 069	739 266	3 181 689	3 584 654	6 773 842	375 821
Oklahoma	—	45	26	4 223	164 997	3 289	6 540	119 450	687 757	583 806	1 275 305	110 901
Oregon	—	60	39	7 854	361 797	6 211	12 526	256 755	1 184 457	1 460 182	2 664 935	116 866
Pennsylvania	—	326	230	32 241	1 194 219	24 350	50 629	799 774	4 782 011	4 469 273	9 202 820	445 112
Rhode Island	2	41	27	1 836	59 034	1 349	2 680	36 459	145 423	137 717	284 676	8 741
South Carolina	—	102	73	14 636	586 227	11 410	24 564	411 794	2 621 638	2 263 320	4 892 572	411 605
South Dakota	—	9	9	695	20 027	563	1 154	13 074	65 418	87 446	151 151	4 311
Tennessee	—	155	120	17 821	617 022	13 724	29 323	413 579	1 683 378	2 231 828	3 897 793	237 999
Texas	—	298	186	22 106	808 960	16 810	36 404	554 167	2 714 620	3 122 230	5 810 603	221 415
Utah	—	32	21	2 724	87 360	2 126	4 840	62 722	482 562	314 183	781 892	43 301
Vermont	1	16	11	1 735	58 952	1 371	2 948	41 150	172 017	211 712	382 141	25 068
Virginia	—	105	80	15 747	631 850	11 873	26 102	425 119	1 937 085	2 404 623	4 319 092	358 385
Washington	—	119	81	15 015	691 029	11 622	23 591	501 712	2 219 921	2 568 941	4 773 878	320 547
West Virginia	—	15	10	777	23 737	616	1 234	16 264	62 194	68 163	129 747	1 550
Wisconsin	—	252	185	42 696	1 887 622	32 719	68 819	1 267 912	5 934 172	6 614 187	12 513 992	618 743
<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>												
United States	2	42 863	8 209	834 404	26 022 991	607 637	1 164 310	16 336 416	58 392 618	39 219 976	97 485 138	5 052 110
Alabama	3	510	74	7 331	196 317	5 262	9 576	119 726	404 672	349 550	756 269	33 264
Alaska	4	57	5	448	12 564	330	590	8 403	27 153	13 359	40 527	2 076
Arizona	1	703	113	9 222	245 125	6 624	12 082	152 741	532 468	318 230	851 371	54 813
Arkansas	—	285	48	4 759	129 215	3 542	6 584	84 092	320 475	206 813	522 060	34 466
California	2	5 434	947	85 820	2 700 798	61 711	117 695	1 639 650	5 915 020	3 965 297	9 890 895	477 129
Colorado	2	871	115	11 655	327 799	7 783	14 642	192 824	423 371	493 251	1 316 708	51 652
Connecticut	2	676	153	13 112	473 457	9 390	18 933	293 599	1 011 810	665 244	1 675 624	66 739
Delaware	4	83	12	928	28 027	634	1 145	16 962	49 688	27 516	77 344	4 794
District of Columbia	3	113	22	1 781	68 512	1 305	2 550	45 867	108 364	100 005	208 387	5 736
Florida	1	2 361	311	27 538	741 866	19 888	35 409	458 899	1 654 322	1 135 194	2 786 884	138 751
Georgia	2	1 207	228	22 225	679 931	15 771	29 833	411 929	1 589 472	1 082 723	2 670 480	112 282
Hawaii*	1	123	19	1 736	42 452	1 072	2 010	27 109	80 317	59 396	140 213	9 658
Idaho	3	176	20	2 431	50 328	1 684	3 141	31 953	123 196	68 740	191 583	10 033
Illinois	2	2 399	547	59 368	2 091 157	43 488	87 235	1 301 712	4 623 131	3 254 851	7 848 668	369 847
Indiana	1	859	202	22 249	645 042	16 704	32 732	427 278	1 476 248	1 245 723	2 723 546	112 986
Iowa	2	451	114	11 621	327 788	8 602	15 712	211 015	759 836	580 275	1 336 157	62 080
Kansas	1	434	103	12 963	372 897	9 526	18 487	234 140	933 330	733 560	1 660 322	61 976
Kentucky	—	448	107	14 664	424 321	11 754	22 364	306 583	958 595	595 499	1 547 117	75 865
Louisiana	2	400	56	4 112	98 742	2 898	4 852	59 160	198 627	141 849	338 253	18 100
Maine	1	192	26	2 757	68 356	2 134	3 932	49 109	152 301	132 358	284 361	10 167
Maryland	2	803	196	17 366	604 439	13 084	25 341	384 364	1 233 213	783 609	2 015 819	142 618
Massachusetts	2	1 161	251	22 944	793 079	16 696	33 154	498 295	1 673 307	1 026 828	2 705 660	120 902
Michigan	1	1 488	261	25 393	790 173	18 155	34 469	475 841	1 819 302	1 191 719	3 007 483	124 384
Minnesota	1	1 022	271	35 837	1 169 939	24 678	48 001	689 724	2 611 215	1 709 347	4 319 361	220 198
Mississippi	—	214	33	4 235	112 735	3 366	6 300	79 441	299 478	225 731	524 894	23 001
Missouri	1	1 009	212	21 975	683 059	16 222	30 750	425 506	1 561 938	1 035 623	2 589 403	105 137
Montana	3	103	11	897	17 801	641	1 016	11 866	34 643	22 153	56 704	3 014
Nebraska	1	277	49	5 481	153 500	4 001	7 150	92 818	366 259	234 338	600 363	31 772
Nevada	5	208	32	2 935	84 916	2 211	4 104	55 418	234 477	209 443	444 413	23 742
New Hampshire	5	253	50	5 069	156 821	3 592	6 875	92 129	359 841	284 370	647 266	28 333
New Jersey	3	1 659	329	31 960	1 184 672	22 869	44 586	736 655	2 406 467	1 558 813	3 963 585	172 641
New Mexico	3	183	17	1 420	30 420	1 020	1 632	19 252	64 874	53 905	119 559	4 888
New York	3	3 003	560	50 140	1 674 814	36 264	70 389	1 050 036	4 134 403	2 227 431	6 359 744	589 062
North Carolina	1	1 157	213	19 830	588 316	14 603	27 713	371 997	1 330 442	877 120	2 213 871	128 918
North Dakota	2	84	14	903	19 804	671	1 146	13 082	43 320	21 630	64 906	3 303
Ohio	1	1 832	410	42 684	1 319 204	30 610	59 589	806 418	3 053 691	1 846 493	4 888 698	230 666
Oklahoma	3	466	56	5 710	143 851	4 206	7 433	92 585	320 964	252 367	564 348	24 618
Oregon	1	619	99	8 767	268 637	6 399	11 789	170 970	587 033	412 172	997 193	44 871
Pennsylvania	1	1 793	420	51 322	1 628 628	37 594	73 603	1 055 563	3 764 162	2 469 106	6 222 343	334 891
Rhode Island	4	224	40	3 269	102 486	2 264	4 210	61 853	223 808	151 028	375 773	19 968
South Carolina	2	455	73	7 205	195 030	5 248	9 658	122 957	439 824	388 999	823 365	33 030
South Dakota	1	95	17	1 384	29 744	1 073	1 859	19 950	76 172	46 756	122 684	4 946
Tennessee	1	868	203	25 008	754 359	19 767	39 599	512 559	1 646 413	1 216 050	2 852 975	145 993
Texas	2	2 685	460	42 972	1 247 869	31 496	58 364	774 812	2 870 865	1 846 261	4 704 332	213 811
Utah	2	309	83	7 775	240 294	5 510	10 267	124 205	554 671	421 044	975 713	31 924
Vermont	1	135	28	3 231	97 554	2 379	4 755	66 644	229 388	168 561	397 227	15 172
Virginia	1	888	165	20 779	635 022	15 247	28 893	433 556	1 393 259	1 074 624	2 464 973	205 565
Washington	2	857	135	11 735	357 586	7 935	13 996	208 415	726 131	412 978	1 140 940	53 337
West Virginia	1	130	15	2 277	56 233	1 802	3 233	40 857	97 206	108 464	204 203	66 779
Wisconsin	1	1 043	278	36 750	1 148 345	27 631	54 531	770 274	2 476 608	1 767 423	4 221 153	189 030
Wyoming	2	58	6	431	8 967	301	481	5 623	17 048	12 157	29 418	3 182
<b>324, PETROLEUM &amp; COAL PRODUCTS MFG</b>												
United States	1	2 146	675	107 625	5 546 082	71 554	161 036	3 421 272	37 610 773	139 509 979	177 393 098	4 755 162
Alabama	1	33	17	2 208	88 876	1 624	3 340	56 516	419 742	1 272 402	1 698 677	38 822
Alaska	—	10	4	377	32 241	278	702	25 082	349 372	1 005 487	1 362 522	53 948
Arizona	5	22	1	298	11 684	210	444	7 279	31 039	75 597	107 810	2 430
Arkansas	—	27	16	1 257	41 970	728	1 428	20 696	343 757	884 510	1 246 180	7 738
California	2	205	65	12 755	723 948	8 295	18 697	456 571	6 818 278	15 354 642	22 122 177	764 655
Colorado	3	22	7	608	31 775	448	986	20 635	170 015	688 718	856 596	17 788
Connecticut	1	39	6	426	20 993	302	650	13 924	81 190	151 576	233 226	4 917
Delaware	—											

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997-Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employ-ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>324. PETROLEUM &amp; COAL PRODUCTS MFG-Con.</b>												
Hawaii *	3	4	3	f	D	D	D	D	D	D	38 747	
Idaho	-	5	2	c	D	D	D	D	D	D	D	
Illinois	-	93	34	5 414	274 343	3 370	8 546	159 664	1 961 488	7 500 105	9 445 672	222 770
Indiana	-	61	16	3 238	155 597	2 589	5 424	117 546	926 638	3 668 450	4 606 223	90 968
Iowa	2	16	4	166	5 331	117	251	3 226	37 265	70 873	110 337	1 090
Kansas	-	23	12	1 944	88 770	1 285	2 547	54 245	396 584	2 359 698	2 738 430	116 752
Kentucky	-	41	6	1 241	60 483	977	2 272	46 521	402 892	1 827 878	2 227 827	D
Louisiana	-	54	35	10 514	641 047	6 832	16 327	383 453	4 891 682	21 637 826	26 644 065	796 106
Maine	2	12	4	366	11 447	340	760	9 888	20 693	28 270	47 828	4 073
Maryland	1	40	6	1 066	42 838	565	1 267	20 640	256 321	236 378	494 267	11 591
Massachusetts	1	54	12	1 260	50 950	824	1 840	32 407	137 145	227 927	363 204	14 144
Michigan	1	68	19	1 785	84 821	986	1 973	38 853	317 557	916 432	1 235 369	26 663
Minnesota	-	29	12	2 083	108 260	1 490	3 403	75 375	860 032	2 592 580	3 451 225	41 184
Mississippi	-	30	10	1 965	89 769	1 306	2 785	56 631	786 050	2 116 018	2 899 815	110 002
Missouri	2	53	12	1 398	59 854	866	1 903	31 116	192 912	335 934	533 284	11 751
Montana	-	6	4	866	47 486	604	1 320	30 050	418 760	1 081 845	1 517 675	25 670
New Jersey	-	67	27	3 996	222 559	2 407	5 380	122 705	1 571 195	6 646 820	8 043 819	93 217
New Mexico	-	13	5	f	D	D	D	D	D	D	D	D
New York	1	152	25	1 742	80 433	1 229	2 540	49 393	291 757	512 405	800 619	22 490
North Carolina	-	32	5	764	24 753	531	1 042	16 256	120 606	191 187	311 487	5 867
North Dakota	-	2	1	c	D	D	D	D	D	D	D	D
Ohio	-	179	43	5 605	253 939	3 500	7 301	131 875	1 029 462	5 224 001	6 254 390	106 221
Oklahoma	1	44	13	2 463	109 587	1 645	4 060	70 154	680 048	3 635 002	4 319 595	68 969
Oregon	5	22	12	769	32 534	535	1 131	19 994	127 077	216 899	346 384	14 971
Pennsylvania	-	165	52	7 329	362 733	4 987	11 686	233 439	1 737 673	7 711 989	9 447 025	593 616
South Carolina	-	21	5	e	D	D	D	D	D	D	D	D
Tennessee	1	51	15	1 291	47 943	822	1 699	28 167	195 354	1 737 868	1 938 611	40 948
Texas	2	192	82	21 346	1 216 796	14 426	32 761	769 450	8 871 898	37 026 272	46 220 904	1 022 481
Utah	-	18	8	1 555	73 397	1 196	2 583	51 080	454 902	1 357 755	1 806 997	47 036
Virginia	-	20	5	605	25 953	335	727	13 308	126 100	436 998	560 125	13 411
Washington	-	31	16	2 185	115 743	1 320	3 195	64 959	820 860	4 573 547	5 393 828	83 370
West Virginia	-	14	7	465	16 882	318	489	11 456	58 897	295 241	370 939	3 095
Wisconsin	1	18	5	418	18 220	237	446	10 197	71 119	323 639	402 337	6 834
Wyoming	1	13	8	871	42 632	621	1 439	29 161	157 220	1 121 574	1 281 146	20 136
<b>325. CHEMICAL MFG</b>												
United States	-	13 474	5 729	882 645	39 835 717	512 152	1 068 966	19 192 170	224 684 500	192 199 632	415 616 508	21 669 251
Alabama	1	207	87	15 486	690 616	10 520	22 905	399 236	3 661 304	3 562 843	7 191 263	590 366
Alaska	-	6	3	e	D	D	D	D	D	D	D	D
Arizona	-	173	51	6 660	190 070	4 785	9 203	104 879	1 384 844	662 358	2 032 804	63 481
Arkansas	1	117	44	7 314	273 661	4 892	9 920	161 536	1 731 771	1 317 073	3 013 494	213 494
California	1	1 542	565	62 544	2 704 402	34 704	69 122	1 044 920	11 347 201	8 030 974	19 302 951	968 580
Colorado	1	176	51	6 710	281 671	4 148	8 072	146 227	1 732 835	1 059 452	2 820 750	108 512
Connecticut	1	165	76	16 982	1 042 672	4 756	10 122	187 005	3 439 648	5 177 238	5 573 541	366 133
Delaware	-	51	34	6 854	312 103	4 239	9 053	159 970	2 247 107	1 937 863	4 102 749	116 271
Florida	1	574	177	20 037	771 357	12 910	27 229	440 040	3 822 295	4 824 761	8 637 766	310 947
Georgia	-	478	224	23 470	870 283	14 446	29 974	453 121	5 520 911	5 645 043	11 149 130	452 826
Hawaii *	7	17	3	159	4 735	89	135	2 103	11 649	11 874	23 581	1 881
Idaho	-	45	13	2 979	102 238	1 950	4 327	66 883	422 564	484 909	904 130	49 344
Illinois	-	744	370	54 214	2 580 357	28 702	59 506	1 110 727	11 931 644	10 210 942	21 924 339	1 097 870
Indiana	-	309	146	23 966	1 197 630	13 569	26 860	562 282	9 026 629	5 169 103	13 718 587	588 821
Iowa	-	125	54	6 925	266 462	4 339	8 803	152 712	3 594 410	1 758 134	5 297 152	329 634
Kansas	1	127	60	6 625	265 942	4 016	8 204	129 688	1 499 477	1 432 049	2 924 405	157 737
Kentucky	-	171	82	14 064	646 867	8 646	19 358	373 598	3 535 564	3 900 800	7 448 736	276 488
Louisiana	-	263	133	27 638	1 560 482	17 195	39 121	910 765	10 965 939	14 519 923	25 357 205	1 914 028
Maine	4	50	13	1 808	68 769	723	1 384	19 693	201 391	153 581	355 868	16 814
Maryland	1	169	79	13 635	579 229	7 311	15 659	268 937	2 723 379	2 205 274	4 917 102	200 895
Massachusetts	1	359	161	21 835	1 020 887	11 726	24 483	433 627	3 540 265	2 876 050	6 423 322	392 339
Michigan	-	433	177	31 986	1 509 009	17 131	33 033	679 224	5 427 176	5 297 097	10 755 824	837 475
Minnesota	1	238	82	8 678	351 105	4 946	9 871	160 152	1 652 103	1 159 761	2 811 448	128 858
Mississippi	1	114	50	7 685	292 665	5 265	11 501	173 191	1 547 779	1 943 905	3 489 205	337 493
Missouri	-	362	149	20 340	793 099	11 878	24 473	394 025	7 092 003	3 315 416	10 368 959	300 096
Montana	2	49	6	480	15 364	362	692	10 495	70 035	129 065	200 131	4 342
Nebraska	-	67	26	2 765	116 675	1 918	4 051	66 340	1 194 217	557 936	1 840 901	70 737
Nevada	1	68	15	1 161	42 492	779	1 542	26 533	182 630	194 361	386 665	25 170
New Hampshire	3	55	23	1 803	69 691	966	1 905	32 294	204 794	224 922	428 873	30 479
New Jersey	1	789	433	60 489	2 979 603	32 431	66 963	1 179 358	17 351 295	11 320 327	28 731 148	1 009 264
New Mexico	2	41	12	1 038	32 936	659	1 253	19 717	107 898	81 224	197 824	26 154
New York	1	631	254	64 997	2 838 569	35 853	80 162	1 298 982	12 644 707	7 784 355	20 488 765	1 112 674
North Carolina	1	424	193	39 653	1 533 397	25 927	53 647	833 066	13 965 701	8 388 896	22 190 721	587 869
North Dakota	5	13	1	c	D	D	D	D	D	D	D	D
Ohio	-	712	369	46 765	1 968 967	26 888	55 599	998 053	10 824 892	10 364 690	21 114 770	813 893
Oklahoma	1	126	43	3 855	146 922	2 551	5 583	88 181	1 705 937	949 890	2 657 298	105 560
Oregon	1	160	54	3 787	138 461	2 197	4 158	63 142	581 232	566 286	1 147 150	80 049
Pennsylvania	-	619	279	33 661	1 591 884	19 500	39 817	759 081	11 281 224	8 299 617	19 594 368	922 777
Rhode Island	1	68	20	2 700	124 564	1 601	3 478	54 276	299 858	310 533	641 965	21 454
South Carolina	-	254	135	38 471	1 691 822	21 799	43 169	822 604	7 407 105	5 656 792	12 973 833	943 643
South Dakota	3	23	7	659	18 871	343	579	6 841	76 722	65 232	142 221	7 409
Tennessee	-	288	126	34 184	1 516 826	19 462	39 912	726 017	5 874 008	4 178 783	10 115 093	611 157
Texas	-	1 113	470	78 490	4 039 076	48 412	105 577	2 220 224	28 267 182	38 812 430	66 996 727	4 247 421
Utah	1	120	43	5 520	172 753	3 319	6 044	84 010	686 125	594 824	1 267 454	92 549
Vermont	2	18	8	475	14 444	293	513	6 230	40 428	44 267	84 813	D

See footnotes at end of table.

**Table 1-2. Industry Statistics for Subsectors by Selected States: 1997-Con.**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>325, CHEMICAL MFG-Con.</b>												
Virginia	-	184	76	20 246	878 650	14 111	30 051	539 917	5 377 349	3 760 069	9 078 754	407 884
Washington	-	230	70	5 558	256 202	3 154	7 154	115 145	965 184	922 457	1 891 543	93 475
West Virginia	-	73	43	13 364	690 763	8 820	18 742	426 025	4 095 021	2 881 173	7 012 772	461 429
Wisconsin	-	307	133	12 425	496 549	6 913	13 774	227 099	2 888 523	1 990 495	4 896 475	129 481
Wyoming	-	23	6	992	52 499	694	1 663	35 124	414 311	292 750	708 132	26 294
<b>326, PLASTICS &amp; RUBBER PRODUCTS MFG</b>												
<b>United States</b>	<b>1</b>	<b>16 821</b>	<b>8 642</b>	<b>1 023 060</b>	<b>29 804 904</b>	<b>805 689</b>	<b>1 607 820</b>	<b>19 828 676</b>	<b>81 349 082</b>	<b>77 994 466</b>	<b>159 161 346</b>	<b>7 836 663</b>
Alabama	-	216	111	20 044	646 982	16 129	30 997	469 673	1 676 272	1 664 061	3 350 507	160 633
Arizona	1	238	99	8 276	212 130	6 324	12 404	138 669	540 148	527 058	1 067 066	51 841
Arkansas	-	182	101	14 395	397 981	11 453	22 020	285 802	1 202 675	1 266 826	2 467 642	94 438
California	2	1 996	933	88 819	2 549 059	68 798	134 231	1 518 768	6 895 925	5 978 708	12 848 337	593 188
Colorado	1	237	79	7 017	215 841	5 077	9 821	121 222	593 312	533 651	1 123 990	52 692
Connecticut	1	257	122	11 088	356 742	7 939	16 960	213 625	870 413	711 845	1 574 646	78 153
Delaware	1	54	30	3 145	105 670	2 318	4 725	61 759	411 904	358 109	779 246	42 516
Florida	2	703	251	20 064	487 536	15 556	28 844	310 586	1 313 096	1 239 820	2 547 495	114 915
Georgia	-	431	244	26 666	737 992	21 523	44 627	514 927	2 358 158	2 580 371	4 920 505	232 374
Hawaii*	3	18	4	251	6 335	190	295	4 255	13 630	11 052	24 618	D
Idaho	-	61	17	1 543	30 753	1 284	2 103	19 817	77 378	59 140	143 508	4 354
Illinois	1	960	543	68 382	2 126 661	53 967	112 123	1 426 472	5 784 341	5 603 586	11 390 617	543 383
Indiana	1	634	408	54 432	1 474 225	44 579	89 378	1 038 818	3 683 660	3 558 922	7 255 451	427 447
Iowa	-	194	108	15 340	459 327	12 747	25 744	342 757	1 293 704	1 253 638	2 532 157	141 830
Kansas	1	149	77	13 140	404 764	10 942	19 945	278 082	1 269 289	1 177 417	2 427 057	78 729
Kentucky	-	220	143	19 378	520 360	15 542	31 255	377 115	1 526 205	1 747 326	3 297 607	157 596
Louisiana	1	120	46	4 792	124 879	3 742	7 760	82 918	407 437	351 586	756 190	51 693
Maine	3	50	25	3 327	95 484	2 490	4 645	61 686	257 815	262 271	516 799	25 848
Maryland	1	141	67	8 869	247 816	7 014	13 515	163 163	753 459	661 351	1 409 296	86 448
Massachusetts	1	455	236	23 177	786 504	17 589	35 674	477 908	1 953 553	1 711 779	3 661 594	164 506
Michigan	1	938	532	67 107	1 923 148	51 783	103 168	1 229 061	4 820 582	4 615 992	9 450 462	469 569
Minnesota	1	404	184	19 983	596 371	14 747	29 049	356 509	1 533 663	1 277 886	2 800 169	150 726
Mississippi	1	171	99	12 004	314 226	10 100	20 068	239 003	849 677	1 073 950	1 923 585	90 100
Missouri	1	358	189	20 781	544 732	16 760	31 827	357 183	1 743 627	1 472 011	3 214 828	199 740
Montana	4	32	3	236	5 153	190	304	3 323	11 280	12 591	23 820	D
Nebraska	1	80	42	6 667	201 641	5 579	11 426	151 838	458 122	439 863	890 321	48 172
Nevada	2	97	40	3 009	82 951	2 376	4 953	58 419	218 622	281 011	495 110	19 528
New Hampshire	1	110	61	6 644	201 708	5 273	10 847	140 587	475 954	445 128	918 092	36 565
New Jersey	2	607	336	32 981	997 709	25 205	51 684	619 081	2 399 552	2 312 269	4 697 590	201 782
New Mexico	3	31	8	624	15 756	482	863	9 438	39 056	42 375	81 950	D
New York	2	742	373	37 885	1 064 397	29 039	55 345	661 415	2 781 380	2 412 535	5 189 834	237 885
North Carolina	-	525	312	45 187	1 323 740	36 504	71 631	921 012	3 901 267	3 613 482	7 494 083	359 902
North Dakota	1	31	10	841	19 098	632	1 214	12 907	55 842	55 842	105 664	9 836
Ohio	1	1 194	700	92 718	2 707 009	72 765	148 353	1 812 137	6 722 255	6 735 268	13 438 485	726 797
Oklahoma	-	178	68	13 501	461 374	11 507	22 055	354 732	1 349 204	1 337 767	2 693 754	93 669
Oregon	1	247	81	8 112	212 875	6 209	11 463	131 357	548 571	576 878	1 120 255	39 617
Pennsylvania	1	773	444	49 524	1 509 061	38 763	77 836	995 509	4 103 262	3 847 956	7 895 252	447 276
Rhode Island	1	109	53	5 252	161 784	3 832	7 633	99 779	432 364	332 880	760 727	76 437
South Carolina	-	246	132	22 947	749 384	18 675	38 164	548 032	2 207 234	2 373 227	4 638 392	231 323
South Dakota	-	37	14	1 470	32 215	1 234	2 119	22 336	112 285	90 326	203 761	6 899
Tennessee	-	389	227	35 049	1 021 012	28 179	58 829	723 199	2 783 717	3 047 513	5 822 959	248 006
Texas	1	1 025	484	53 923	1 485 950	42 380	86 142	4 489 879	9 290 664	4 571 740	9 026 461	399 546
Utah	2	140	52	4 132	106 191	3 192	6 189	70 187	275 531	255 300	530 450	22 553
Vermont	4	40	21	1 857	53 956	1 440	2 189	34 997	134 428	127 066	262 820	D
Virginia	-	194	115	21 726	678 163	17 254	33 966	472 040	2 436 453	1 921 257	4 331 177	193 683
Washington	1	268	120	11 604	322 101	8 799	17 663	210 184	796 329	816 293	1 606 616	111 112
West Virginia	-	54	27	2 869	72 606	2 211	4 486	46 287	226 182	221 509	448 081	39 694
Wisconsin	-	460	267	31 816	944 692	25 122	50 195	645 537	2 539 184	2 407 891	4 957 595	256 928
Wyoming	-	9	3	e	D	D	D	D	D	D	D	D
<b>327, NONMETALLIC MINERAL PRODUCT MFG</b>												
<b>United States</b>	<b>1</b>	<b>16 310</b>	<b>5 287</b>	<b>501 471</b>	<b>16 172 049</b>	<b>388 898</b>	<b>797 684</b>	<b>11 319 464</b>	<b>49 425 491</b>	<b>37 072 480</b>	<b>86 464 708</b>	<b>4 798 921</b>
Alabama	-	298	107	9 008	272 525	7 098	14 209	187 718	927 459	766 821	1 672 621	73 348
Alaska	3	26	2	185	7 613	147	279	5 724	18 885	19 675	38 747	1 424
Arizona	1	259	99	6 913	194 113	5 042	10 068	130 092	624 282	486 808	1 101 267	60 114
Arkansas	-	211	58	4 443	118 078	3 433	6 805	83 925	381 926	330 672	714 186	34 940
California	1	1 563	525	42 677	1 407 482	32 799	66 393	985 163	4 117 219	3 347 363	7 478 844	344 419
Colorado	1	270	96	8 706	283 279	6 840	14 323	203 753	741 409	588 544	1 317 813	78 967
Connecticut	2	145	39	2 726	99 870	1 948	4 150	61 555	263 616	223 333	493 245	18 099
Delaware	4	39	13	813	27 119	635	1 349	18 684	76 383	104 190	180 308	6 899
District of Columbia	1	3	2	107	4 466	62	145	2 432	8 341	17 395	25 771	1 374
Florida	1	891	257	20 609	606 573	15 463	33 095	414 251	1 743 205	1 800 669	3 536 588	140 593
Georgia	-	597	198	18 138	584 278	13 764	28 649	400 453	1 972 157	1 586 376	3 567 198	181 171
Hawaii*	1	46	10	667	27 763	483	971	19 022	63 356	71 235	134 684	3 786
Idaho	1	88	26	1 359	37 596	1 061	1 898	26 563	82 830	87 585	169 926	8 896
Illinois	1	638	238	18 930	634 732	14 724	29 603	444 208	1 800 965	1 345 646	3 157 220	149 577
Indiana	1	466	175	18 476	620 547	14 643	30 533	449 962	1 735 950	1 475 313	3 238 553	159 290
Iowa	-	311	79	7 085	209 974	5 962	12 273	159 680	920 134	647 474	1 563 651	58 842
Kansas	1	208	66	5 793	188 249	4 693	9 468	140 928	656 665	418 931	1 078 570	120 220
Kentucky	-	259	98	10 541	316 394	8 134	16 758	222 842	976 232	735 937	1 685 292	103 640
Louisiana	1	192	59	5 423	151 242	4 287	8 307	106 543	391 850	388 010	776 354	32 112
Maine	2	107	22	1 305	35 299	897	1 803	21 631	86 243	76 950	162 017	6 655
Maryland	-	186	71	5 630	190 122	4 314	9 065	134 241				

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>327. NONMETALLIC MINERAL PRODUCT MFG—Con.</b>												
Missouri .....	1	426	132	11 175	344 367	8 591	16 847	243 652	1 025 792	752 246	1 775 661	109 655
Montana .....	1	82	16	1 071	33 391	861	1 610	23 626	93 995	71 590	166 311	6 758
Nebraska .....	1	131	32	2 446	65 878	1 976	3 746	46 901	213 159	184 747	404 047	15 366
Nevada .....	1	103	50	3 895	139 372	2 959	6 287	102 742	436 810	342 940	779 329	30 857
New Hampshire .....	1	83	23	2 143	73 385	1 607	3 264	46 973	224 512	160 505	383 895	9 447
New Jersey .....	1	359	147	14 413	506 535	11 048	22 846	354 676	1 305 483	853 128	2 138 852	101 915
New Mexico .....	1	135	34	2 507	71 069	1 895	3 678	50 683	199 836	176 719	373 251	17 807
New York .....	1	708	202	20 327	704 562	15 053	30 560	460 256	2 165 908	1 407 955	3 582 343	268 158
North Carolina .....	—	554	175	22 447	662 990	18 124	37 586	479 084	2 626 946	1 345 641	3 966 346	299 370
North Dakota .....	2	53	9	606	17 510	507	988	13 182	31 550	34 038	66 128	3 595
Ohio .....	1	837	348	37 636	1 263 470	29 617	60 851	894 960	3 860 977	2 507 484	6 351 045	343 100
Oklahoma .....	—	253	65	8 043	248 663	6 534	13 806	191 471	749 099	490 896	1 240 643	68 548
Oregon .....	—	248	58	4 727	152 881	3 580	7 111	105 179	417 094	354 128	769 665	36 968
Pennsylvania .....	1	817	289	33 218	1 113 061	26 107	53 730	800 370	3 536 017	2 535 761	6 074 014	443 930
Rhode Island .....	1	51	8	1 122	37 545	880	1 810	27 838	103 657	59 546	162 365	7 109
South Carolina .....	2	209	82	9 681	316 872	7 625	16 658	227 074	1 131 243	725 213	1 853 894	117 700
South Dakota .....	1	68	12	1 172	36 342	889	1 825	21 811	85 472	68 951	153 759	9 619
Tennessee .....	—	364	135	14 036	466 276	11 292	24 229	350 574	1 316 581	988 723	2 297 545	106 682
Texas .....	1	1 180	367	34 336	999 413	27 361	56 703	735 325	3 420 388	2 752 883	6 189 745	294 452
Utah .....	1	132	50	4 163	120 709	3 223	6 316	88 181	339 532	293 174	631 496	116 055
Vermont .....	2	126	26	1 813	55 456	1 352	2 690	38 083	122 397	86 108	210 485	10 012
Washington .....	1	350	132	12 114	341 601	9 304	18 979	233 090	944 602	779 270	1 727 436	85 245
West Virginia .....	—	332	99	7 651	253 191	6 031	12 072	181 727	698 884	584 273	1 292 468	65 094
Wisconsin .....	1	141	45	5 725	160 392	4 730	9 013	116 710	449 996	232 217	680 396	30 714
Wyoming .....	1	384	106	10 492	348 095	8 278	16 499	247 343	1 209 486	812 876	2 030 125	124 958
	—	38	9	668	22 877	536	1 196	17 434	85 227	65 093	149 926	6 818
<b>331. PRIMARY METAL MFG</b>												
United States .....	—	5 059	3 077	605 085	23 811 233	479 552	1 024 675	17 354 552	68 749 487	99 343 265	168 117 728	6 515 752
Alabama .....	—	134	91	23 512	882 611	18 672	40 862	642 428	2 141 587	3 956 376	6 251 116	314 982
Arizona .....	—	59	30	7 037	246 120	5 566	11 702	175 921	660 011	1 460 130	2 165 497	80 337
Arkansas .....	—	50	41	8 622	318 587	7 144	15 122	249 359	1 371 572	2 290 692	3 679 561	114 354
California .....	—	464	236	24 145	832 106	19 206	40 448	562 727	2 480 371	3 613 533	6 074 772	214 631
Colorado .....	—	34	16	2 416	89 419	1 991	4 508	68 199	242 013	340 090	582 066	14 987
Connecticut .....	—	93	54	6 137	250 788	4 700	10 251	166 716	653 300	932 336	1 572 490	38 537
Delaware .....	—	7	5	738	31 633	560	1 174	21 673	80 151	128 743	206 989	8 422
Florida .....	—	103	43	5 196	160 476	4 023	8 404	110 704	495 121	621 281	1 089 949	61 960
Georgia .....	—	72	43	6 879	214 494	5 523	11 834	149 128	596 058	1 432 943	2 028 324	59 200
Idaho .....	1	12	3	149	4 081	123	190	2 632	8 528	12 269	20 823	D
Illinois .....	—	324	209	38 559	1 486 398	30 732	66 302	1 083 275	4 134 141	6 754 516	10 869 360	304 223
Indiana .....	—	246	185	62 868	2 961 267	49 769	108 682	2 244 267	8 423 403	10 917 627	19 244 981	999 927
Iowa .....	—	67	44	9 476	390 866	7 668	15 849	296 785	1 249 503	1 451 875	2 712 316	91 191
Kansas .....	—	45	18	2 444	74 430	2 090	4 229	54 966	172 938	156 450	329 587	16 163
Kentucky .....	—	47	57	15 085	588 849	12 237	27 302	433 858	2 150 863	3 475 327	5 601 360	257 980
Louisiana .....	—	32	23	3 504	128 350	2 708	5 844	84 730	369 511	630 436	1 000 185	38 569
Maine .....	—	8	3	526	16 901	358	852	11 342	43 100	17 246	60 022	2 180
Maryland .....	—	34	15	7 399	361 838	5 833	12 805	279 574	1 357 082	1 039 011	2 399 749	140 080
Massachusetts .....	1	123	63	6 171	214 212	4 544	9 839	137 201	490 867	772 981	1 286 434	58 303
Michigan .....	—	331	214	37 473	1 555 543	29 587	64 432	1 160 292	4 031 742	4 977 286	9 000 918	362 486
Minnesota .....	—	86	56	7 067	256 128	5 557	11 943	173 636	553 024	574 906	1 132 379	58 507
Mississippi .....	—	35	24	4 261	119 939	3 516	7 637	91 533	381 950	573 228	947 955	44 838
Missouri .....	—	114	67	12 629	413 932	9 923	19 612	293 225	1 199 725	1 449 929	2 638 967	116 155
Montana .....	—	16	4	g	D	D	D	D	D	D	D	D
Nebraska .....	—	13	7	1 133	52 690	957	2 094	42 157	144 693	170 431	314 159	D
Nevada .....	—	17	8	1 461	48 988	1 127	2 259	32 565	259 642	232 698	493 332	10 518
New Hampshire .....	—	34	19	3 526	111 565	2 644	4 476	79 058	263 372	156 857	419 700	26 031
New Jersey .....	—	138	79	10 682	409 142	7 852	16 216	249 544	1 063 596	1 585 605	2 688 588	100 564
New Mexico .....	2	24	6	1 314	45 350	998	1 983	33 301	105 590	810 934	915 444	23 461
New York .....	—	206	103	16 392	668 989	11 960	25 966	448 932	1 636 781	3 784 429	5 441 049	207 814
North Carolina .....	—	77	49	7 512	253 716	6 014	12 588	178 215	794 299	1 175 057	1 927 936	67 404
North Dakota .....	2	2	1	c	D	D	D	D	D	D	D	D
Ohio .....	—	473	314	73 424	3 169 168	59 460	129 010	2 383 877	10 848 422	10 636 631	21 392 622	752 570
Oklahoma .....	—	65	38	5 053	153 602	4 099	8 848	118 243	416 013	537 480	959 049	30 210
Oregon .....	—	79	45	10 712	403 755	7 841	17 002	271 151	990 631	1 208 922	2 155 658	34 420
Pennsylvania .....	—	417	304	62 520	2 560 796	48 775	102 018	1 851 643	6 239 732	10 709 489	16 867 030	611 026
Rhode Island .....	—	87	26	3 169	97 524	2 741	6 132	78 469	179 667	335 893	543 012	16 591
South Carolina .....	—	67	35	7 369	268 188	6 003	12 371	195 369	840 855	1 454 880	2 357 088	90 037
South Dakota .....	—	6	3	f	D	D	D	D	D	D	D	1 070
Tennessee .....	—	135	86	16 107	544 941	13 079	26 378	387 674	2 075 284	3 079 490	5 112 306	116 726
Texas .....	—	228	133	26 674	942 215	21 317	45 973	683 504	2 607 084	6 401 661	9 127 757	319 236
Utah .....	—	45	29	6 929	275 331	5 445	11 725	210 065	1 204 581	2 691 435	2 899 510	123 724
Vermont .....	—	3	2	e	D	D	D	D	D	D	D	D
Virginia .....	—	49	31	7 342	251 983	6 086	12 696	191 219	665 539	1 139 600	1 803 693	54 681
Washington .....	—	87	55	12 125	502 063	9 774	20 551	358 343	1 271 397	2 174 528	3 472 767	162 121
West Virginia .....	—	36	24	11 109	486 538	8 509	18 581	359 041	1 389 782	2 041 187	3 430 387	166 074
Wisconsin .....	—	194	134	25 951	896 975	20 974	44 243	657 322	2 297 730	1 949 843	4 244 368	172 084
Wyoming .....	4	8	2	c	D	D	D	D	D	D	D	544
<b>332. FABRICATED METAL PRODUCT MFG</b>												
United States .....	—	62 384	19 021	1 763 772	56 631 583	1 327 053	2 674 948	36 251 771	133 493 077	110 067 843	242 813 453	9 368 661
Alabama .....	—	985	323	29 931	845 822	22 427	45 960	542 717	2 084 341	1 915 485	4 023 518	145 111
Alaska .....	2	49	5	374	13 365	273	543	8 612	24 910	25 235	50 243	1 377
Arizona .....	1	833	208	20 122	622 102	14 581	29 489	354 954	1 633 206	1 104 774	2 736 877	98 443
Arkansas .....	—	494	142	22 320	615 024	1						

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997-Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Table with columns: Industry and geographic area, E1, Total, With 20 employees or more, All establishments, All employees (Number, Payroll), Production workers (Number, Hours, Wages), Value added by manufacture, Cost of materials, Value of shipments, Total capital expenditures. Rows include 332. FABRICATED METAL PRODUCT MFG-Con. and 333. MACHINERY MFG.

See footnotes at end of table.

**Table 1–2. Industry Statistics for Subsectors by Selected States: 1997—Con.**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>333, MACHINERY MFG—Con.</b>												
Pennsylvania .....	1	1 528	623	73 097	2 743 960	47 034	93 476	1 506 948	6 794 594	5 762 599	12 577 701	408 934
Rhode Island .....	1	176	38	3 241	119 900	2 095	4 024	63 159	259 169	162 785	417 042	10 618
South Carolina .....	—	359	146	24 683	778 585	17 428	36 523	469 778	2 533 962	2 941 647	5 503 952	217 919
South Dakota .....	—	93	39	5 180	142 734	3 776	7 859	92 330	389 935	387 406	775 698	24 817
Tennessee .....	—	545	229	39 962	1 165 677	31 566	63 292	772 517	3 621 555	4 867 715	8 514 885	196 904
Texas .....	1	1 722	629	79 202	2 620 737	53 948	108 708	1 461 081	8 003 402	7 463 991	15 184 529	493 666
Utah .....	—	163	47	6 517	229 531	4 053	8 075	128 468	586 468	489 452	1 048 668	30 273
Vermont .....	1	90	35	3 574	122 601	2 461	4 685	72 091	276 079	183 862	456 449	17 954
Virginia .....	—	345	140	21 116	700 792	14 745	30 632	403 331	1 596 037	2 101 968	3 764 516	122 272
Washington .....	1	502	130	13 627	474 312	8 984	16 953	260 564	1 051 680	964 279	2 014 659	58 584
West Virginia .....	2	99	38	3 949	128 149	3 057	6 156	79 231	300 780	327 183	633 302	18 808
Wisconsin .....	—	1 257	550	85 466	3 359 845	55 252	111 214	1 894 527	8 355 559	7 769 615	16 103 482	542 854
Wyoming .....	2	33	6	609	17 700	474	942	11 310	40 021	34 605	74 934	1 752
<b>334, COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>												
<b>United States .....</b>	<b>—</b>	<b>17 435</b>	<b>7 613</b>	<b>1 691 146</b>	<b>72 483 848</b>	<b>877 002</b>	<b>1 746 314</b>	<b>26 117 539</b>	<b>252 629 768</b>	<b>187 875 131</b>	<b>439 381 300</b>	<b>24 768 490</b>
Alabama .....	—	140	62	20 481	656 037	10 563	21 903	259 043	2 026 633	3 666 829	5 645 523	138 535
Arizona .....	—	357	167	48 408	2 096 458	23 489	50 583	663 809	13 482 857	2 846 477	16 300 108	1 571 175
Arkansas .....	—	57	25	4 548	98 284	3 194	5 727	55 942	312 425	672 357	984 851	35 676
California .....	—	4 262	1 896	396 422	19 868 784	184 852	379 741	6 108 685	65 114 220	48 629 854	112 899 181	6 325 113
Colorado .....	—	429	155	40 649	1 816 822	20 491	39 809	584 012	6 245 825	5 340 186	11 539 099	792 105
Connecticut .....	1	398	183	23 906	992 418	12 999	26 224	415 297	2 460 284	1 764 602	4 206 841	161 102
Delaware .....	—	26	12	1 556	66 158	718	1 419	24 383	226 044	176 233	401 854	D
Florida .....	—	777	285	65 148	2 620 077	29 892	58 214	751 674	7 170 754	5 268 265	12 490 156	635 157
Georgia .....	2	265	98	20 169	717 742	12 545	25 137	319 438	2 195 147	2 546 699	4 722 414	134 920
Hawaii * .....	1	9	1	c	D	D	D	D	D	D	D	D
Idaho .....	—	57	29	16 797	793 150	10 839	14 050	359 458	2 484 157	4 984 453	7 423 868	1 053 189
Illinois .....	—	767	348	76 096	3 072 281	42 207	82 137	1 109 698	8 265 277	8 097 847	16 230 741	965 312
Indiana .....	1	262	125	28 054	874 645	19 546	39 548	479 816	2 123 249	2 594 077	4 713 882	152 381
Iowa .....	—	73	28	13 837	520 660	5 538	9 875	121 261	1 237 226	774 835	1 949 078	66 193
Kansas .....	1	113	41	6 167	203 971	3 437	6 971	75 692	495 860	348 390	814 535	31 395
Kentucky .....	—	75	38	10 355	399 265	5 475	10 994	112 742	1 129 383	1 294 311	2 390 189	55 654
Louisiana .....	—	67	19	2 203	93 794	1 413	2 391	47 828	214 976	291 930	503 542	36 192
Maine .....	—	50	26	5 770	201 695	4 437	8 953	117 934	468 194	435 932	943 981	30 281
Maryland .....	—	260	108	24 431	1 136 055	10 274	20 595	367 077	3 106 867	1 793 636	4 887 085	210 426
Massachusetts .....	1	926	478	104 896	5 055 939	48 007	97 695	1 730 527	15 857 503	9 034 611	24 806 161	1 184 926
Michigan .....	—	439	178	25 265	999 959	16 223	34 566	547 382	2 494 264	2 459 708	4 929 165	155 419
Minnesota .....	—	473	243	60 938	2 490 470	32 157	63 849	902 805	6 157 420	4 902 839	10 978 132	806 191
Mississippi .....	—	37	17	4 294	98 243	2 913	5 612	56 014	292 469	340 283	628 779	35 894
Missouri .....	—	174	72	13 601	429 928	8 300	15 762	192 757	2 107 875	786 497	2 920 967	171 017
Montana .....	4	30	6	e	D	D	D	D	D	D	D	D
Nebraska .....	—	56	25	6 796	201 966	4 982	9 003	125 465	634 972	433 017	1 056 042	47 977
Nevada .....	1	94	29	3 344	122 711	1 801	3 521	44 780	226 894	225 003	456 800	D
New Hampshire .....	—	260	113	22 629	895 183	14 487	28 228	461 913	4 780 009	3 463 448	8 256 523	213 526
New Jersey .....	1	643	279	39 301	1 777 227	21 669	42 721	742 409	4 063 163	2 641 597	6 776 170	293 354
New Mexico .....	—	71	26	11 024	409 692	7 650	16 986	241 287	11 103 830	894 556	11 965 111	354 398
New York .....	1	972	432	85 353	3 517 185	43 540	86 824	1 258 482	8 348 093	6 359 872	14 844 841	537 014
North Carolina .....	—	329	158	51 261	1 627 518	23 463	43 025	575 287	6 615 501	10 506 296	17 398 298	290 384
North Dakota .....	—	15	7	1 476	44 685	1 087	2 237	28 228	15 873	99 685	112 339	6 165
Ohio .....	—	520	227	34 986	1 251 213	21 551	42 129	591 582	3 943 606	3 319 889	7 196 850	260 449
Oklahoma .....	—	136	48	12 989	472 556	7 772	14 747	237 036	2 525 131	1 326 820	3 870 464	90 517
Oregon .....	—	310	121	37 728	1 644 739	23 381	51 027	873 569	10 897 149	4 167 533	14 996 224	1 961 997
Pennsylvania .....	1	812	371	61 266	2 298 684	36 428	72 333	1 035 910	8 347 557	4 450 291	12 778 837	530 001
Rhode Island .....	—	78	39	7 359	262 364	3 791	7 198	88 967	679 779	494 322	1 153 957	45 172
South Carolina .....	—	83	36	14 795	504 263	9 760	19 216	248 786	1 107 727	1 199 286	2 273 671	122 250
South Dakota .....	—	35	19	12 395	313 110	6 802	12 123	128 844	1 800 100	4 124 870	5 939 877	87 858
Tennessee .....	—	188	77	11 808	371 723	8 116	16 086	192 164	891 904	1 831 970	2 782 520	82 528
Texas .....	—	1 054	442	135 987	6 152 033	65 781	130 712	1 952 714	27 380 226	21 311 146	48 779 677	2 950 137
Utah .....	—	156	59	15 625	590 259	8 196	17 278	212 255	1 642 097	1 937 235	3 567 588	127 838
Vermont .....	—	52	16	i	D	D	D	D	D	D	D	D
Virginia .....	—	268	124	29 885	1 195 569	15 677	29 758	468 625	3 049 860	3 436 309	6 487 767	590 793
Washington .....	—	438	163	46 097	2 193 216	21 137	40 666	694 354	4 643 766	2 800 509	7 432 183	699 534
West Virginia .....	2	25	12	1 033	27 280	614	1 272	14 315	46 726	33 609	79 625	D
Wisconsin .....	—	294	144	23 431	804 389	14 406	27 109	372 152	2 470 629	2 133 963	4 623 140	158 293
Wyoming .....	2	15	4	f	D	D	D	D	D	D	D	D
<b>335, ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG</b>												
<b>United States .....</b>	<b>—</b>	<b>6 930</b>	<b>3 312</b>	<b>593 802</b>	<b>18 972 741</b>	<b>432 273</b>	<b>860 344</b>	<b>11 368 753</b>	<b>57 215 610</b>	<b>54 987 295</b>	<b>112 116 267</b>	<b>3 598 750</b>
Alabama .....	—	92	46	8 355	236 761	6 829	13 337	173 722	771 121	932 480	1 723 825	41 402
Arizona .....	—	88	28	4 228	127 917	2 804	5 708	68 416	398 543	478 263	910 071	28 527
Arkansas .....	—	75	55	16 214	415 999	13 363	27 574	312 477	1 276 948	1 510 824	2 809 280	54 576
California .....	1	956	406	41 341	1 469 433	27 239	53 886	691 749	4 011 481	3 256 706	7 193 072	245 374
Colorado .....	3	86	24	2 142	77 028	1 240	2 526	33 271	139 000	133 252	275 761	8 298
Connecticut .....	1	215	114	14 693	534 310	8 956	17 766	249 805	1 389 126	963 967	2 352 691	96 874
Delaware .....	—	10	6	794	31 057	366	797	13 760	95 923	72 161	167 271	7 165
Florida .....	1	280	101	11 348	324 526	7 818	14 216	171 617	789 762	620 542	1 417 333	93 755
Georgia .....	—	123	66	20 923	697 107	16 074	32 339	455 928	2 518 321	2 685 593	5 156 874	253 958
Idaho .....	2	27	9	578	16 638	335	686	6 706	35 173	24 684	60 879	D

See footnotes at end of table.

Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	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)	
	E1	Total	With 20 employ-ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>335. ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG—Con.</b>												
Illinois .....	—	482	256	48 579	1 591 274	33 738	66 971	853 648	4 000 332	3 583 726	7 601 489	295 939
Indiana .....	—	182	114	21 728	681 986	17 600	34 030	495 634	2 025 019	2 010 371	4 027 930	90 567
Iowa .....	—	41	29	12 260	406 499	9 696	20 167	286 802	1 335 947	1 162 335	2 440 115	37 957
Kansas .....	—	60	24	4 986	161 437	3 972	8 271	118 947	518 696	612 349	1 132 157	58 837
Kentucky .....	—	84	50	18 122	625 534	15 327	29 946	490 824	1 850 496	2 191 500	4 043 861	131 791
Louisiana .....	1	46	22	2 412	80 097	1 679	3 409	54 599	207 283	198 148	408 645	6 966
Maine .....	—	20	12	1 116	36 358	779	1 547	21 031	109 620	78 148	188 186	6 724
Maryland .....	1	52	14	2 322	66 798	1 386	2 306	29 910	163 867	116 836	279 324	8 658
Massachusetts .....	1	228	122	17 178	617 001	10 858	22 347	296 125	1 606 976	1 376 716	2 982 316	109 116
Michigan .....	—	244	102	14 139	472 871	10 599	21 415	274 879	1 207 431	1 326 512	2 542 329	63 221
Minnesota .....	—	155	74	11 500	410 938	7 350	14 182	222 390	893 713	996 391	1 904 323	64 026
Mississippi .....	—	69	51	14 930	383 357	11 543	24 363	241 986	1 384 215	1 665 953	3 077 703	94 041
Missouri .....	—	135	81	18 803	501 069	15 117	28 805	344 524	1 549 583	1 551 898	3 100 766	119 723
Nebraska .....	—	23	13	4 334	149 203	3 436	6 721	112 523	631 226	459 827	1 083 905	28 439
Nevada .....	1	30	6	778	21 422	473	995	11 970	7 936	103 546	116 604	7 802
New Hampshire .....	—	55	32	5 558	174 700	3 907	7 863	105 300	571 437	448 193	1 010 505	50 599
New Jersey .....	1	269	118	10 696	338 814	7 719	14 907	200 138	868 915	707 484	1 575 727	36 702
New Mexico .....	—	25	6	1 001	28 347	730	1 563	17 153	80 386	91 637	172 060	D
New York .....	1	423	191	25 381	826 405	18 344	36 448	494 118	2 872 888	2 105 974	4 997 529	135 301
North Carolina .....	—	197	108	34 080	1 010 818	26 696	53 485	670 162	3 157 942	3 833 465	6 932 970	219 549
Ohio .....	—	393	211	46 970	1 568 428	33 858	67 397	950 648	5 313 158	4 037 518	9 415 016	229 192
Oklahoma .....	—	71	27	3 245	94 181	2 204	4 408	55 624	306 058	300 601	606 820	8 726
Oregon .....	1	73	20	2 109	80 105	1 292	2 639	39 090	249 422	222 163	464 720	9 019
Pennsylvania .....	—	379	191	28 922	940 506	20 295	42 092	567 684	2 778 632	2 458 728	5 243 701	175 214
Rhode Island .....	2	34	17	4 591	150 442	3 297	7 133	81 427	586 052	503 913	1 099 054	32 405
South Carolina .....	—	91	57	14 995	455 221	11 100	22 942	281 984	1 424 801	1 755 608	3 162 847	124 482
South Dakota .....	—	11	4	454	11 100	376	733	7 984	57 809	36 350	92 783	D
Tennessee .....	—	148	92	25 526	713 167	20 991	42 384	516 057	2 123 353	2 581 471	4 690 060	156 023
Texas .....	1	406	169	23 385	705 019	16 345	32 206	380 578	2 243 459	2 663 230	4 901 943	161 726
Utah .....	—	36	18	1 489	44 323	1 027	1 873	26 583	173 289	236 446	410 575	22 062
Vermont .....	—	20	10	1 373	48 091	969	1 906	26 980	100 316	113 163	217 124	15 025
Virginia .....	—	106	47	11 673	385 589	7 052	13 976	192 257	1 221 270	1 003 771	2 200 439	49 382
Washington .....	2	115	35	3 585	113 346	2 164	4 048	48 085	338 337	243 599	581 683	18 799
West Virginia .....	—	25	10	1 544	56 322	1 139	2 577	37 286	145 512	86 240	226 767	19 657
Wisconsin .....	—	216	124	33 290	1 088 186	24 097	45 289	634 429	3 677 350	3 438 071	7 103 064	176 042
<b>336. TRANSPORTATION EQUIPMENT MFG</b>												
United States .....	—	12 887	5 816	1 842 315	79 616 518	1 340 735	2 734 790	51 450 169	227 510 551	348 121 929	575 306 996	19 251 148
Alabama .....	—	218	99	26 211	1 074 094	21 084	41 423	791 458	2 209 405	2 709 660	4 912 012	170 490
Alaska .....	2	21	4	c	D	D	D	D	D	D	D	4 778
Arizona .....	—	226	87	29 838	1 438 746	14 467	31 670	411 557	4 592 542	3 414 598	8 228 987	193 229
Arkansas .....	—	153	65	15 477	391 610	12 393	25 218	278 521	1 168 036	1 723 823	2 934 333	63 330
California .....	—	1 691	639	163 558	7 470 200	91 582	177 060	3 084 714	16 576 249	17 615 672	35 058 848	1 493 638
Colorado .....	—	138	32	12 493	574 147	10 398	18 483	406 768	2 392 692	1 844 498	4 124 790	88 243
Connecticut .....	—	211	115	51 167	2 568 170	25 864	55 224	1 034 934	5 326 280	4 484 227	9 796 976	297 330
Delaware .....	—	14	6	4 280	278 051	3 818	8 870	238 479	2 054 919	1 623 495	1 874 347	D
Florida .....	1	759	205	37 179	1 288 759	24 553	48 959	612 599	4 369 341	2 578 727	6 752 841	174 362
Georgia .....	—	269	120	46 915	1 906 862	32 438	60 490	1 152 889	6 298 537	11 625 359	17 754 072	281 406
Hawaii * .....	3	24	6	400	13 418	328	585	10 306	26 088	21 138	47 327	816
Idaho .....	1	50	19	1 926	47 428	1 512	2 764	29 261	113 398	136 016	239 139	2 125
Illinois .....	—	450	238	60 549	2 308 869	46 495	90 318	1 577 280	7 082 346	11 749 639	18 848 245	652 505
Indiana .....	—	648	424	143 190	5 933 946	112 211	238 331	4 232 739	14 523 131	21 386 504	35 908 718	1 452 669
Iowa .....	—	168	93	18 508	526 040	14 828	29 077	366 402	1 316 426	1 529 495	2 848 475	72 812
Kansas .....	—	199	96	52 788	2 373 679	35 575	67 757	1 430 302	6 676 076	7 759 957	13 549 737	393 574
Kentucky .....	—	175	112	42 351	1 793 567	34 605	73 754	1 343 773	11 526 917	18 966 031	30 489 512	1 193 294
Louisiana .....	—	179	85	22 046	784 341	18 286	41 086	626 638	2 054 919	2 746 424	4 781 173	73 648
Maine .....	—	99	19	11 089	391 660	8 743	13 386	281 097	742 003	1 033 588	1 752 170	27 456
Maryland .....	—	108	38	9 458	367 307	6 959	13 258	228 546	1 371 327	2 867 128	4 184 414	53 877
Massachusetts .....	—	173	56	12 928	576 280	7 992	15 029	274 374	1 254 861	1 595 428	2 884 531	97 455
Michigan .....	—	1 096	685	267 437	13 468 844	223 017	468 163	10 748 926	39 092 611	69 913 855	109 058 033	4 877 315
Minnesota .....	—	192	72	14 034	426 661	10 840	20 231	294 483	2 246 839	2 732 688	4 919 417	116 042
Mississippi .....	—	127	72	25 479	694 630	18 536	36 521	451 946	1 675 999	1 949 146	3 658 993	100 902
Missouri .....	—	344	159	64 774	2 830 449	43 295	88 415	1 680 892	10 278 341	19 586 898	32 221 423	501 619
Montana .....	2	37	4	562	16 247	430	800	11 002	24 873	32 703	58 733	3 230
Nebraska .....	—	69	27	7 610	228 088	6 192	12 659	167 361	568 103	919 635	1 496 495	29 502
Nevada .....	3	59	13	1 608	44 609	1 224	2 132	30 195	96 110	54 493	150 225	5 440
New Hampshire .....	—	29	12	2 006	71 256	1 546	3 004	49 077	140 891	107 946	244 357	8 258
New Jersey .....	—	185	56	10 720	445 577	8 571	17 793	327 631	1 771 327	3 420 889	5 190 865	143 606
New Mexico .....	—	36	8	2 223	58 214	1 685	3 363	38 104	195 489	202 907	386 220	16 252
New York .....	—	403	157	43 629	2 106 601	32 434	68 860	1 462 711	4 647 807	6 640 853	11 416 041	397 897
North Carolina .....	—	315	133	32 597	1 089 080	25 784	52 312	787 765	3 602 898	5 149 013	8 683 941	248 023
North Dakota .....	6	35	13	2 559	65 918	2 004	3 527	40 656	210 885	347 313	537 529	14 769
Ohio .....	—	713	460	173 367	8 139 283	141 711	299 099	6 174 575	25 595 363	45 838 565	71 455 448	2 581 374
Oklahoma .....	—	211	98	20 291	647 787	16 215	31 409	447 245	1 588 903	3 009 279	4 606 563	75 632
Oregon .....	—	239	84	15 636	518 643	12 946	25 307	400 978	1 378 407	1 936 897	3 308 621	48 484
Pennsylvania .....	—	398	186	49 607	2 085 591	35 566	75 143	1 321 315	5 349 005	5 680 367	10 637 403	303 522
Rhode Island .....	1	56	17	1 143	32 990	808	1 594	21 955	61 578	79 603	138 331	5 255
South Carolina .....	—	157	93	22 321	767 807	17 165	35 190	519 945	2 729 114	4 089 855	6 770 460	310 830
South Dakota .....	—	34	18	2 121	55 523	1 702	3 342	36 975	193 349	184 935	378 173</	



**Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>336. TRANSPORTATION EQUIPMENT MFG—Con.</b>												
Virginia	—	174	77	36 747	1 400 474	25 123	51 072	835 631	4 957 236	5 970 711	10 933 466	205 205
Washington	3	457	148	88 343	4 638 325	47 048	99 904	2 342 201	9 506 500	21 486 137	29 189 989	316 993
West Virginia	—	27	16	3 425	128 106	2 702	5 916	92 559	313 184	297 837	609 214	11 506
Wisconsin	—	272	140	41 267	1 651 775	32 799	67 070	1 177 387	5 519 239	9 178 892	14 710 711	495 387
Wyoming	3	19	3	316	6 809	251	394	4 177	15 084	14 752	30 498	661
<b>337. FURNITURE &amp; RELATED PRODUCT MFG</b>												
United States	1	20 738	4 756	603 668	14 986 222	484 600	936 574	10 217 032	34 839 134	29 462 249	64 299 098	1 744 608
Alabama	—	471	96	14 789	313 242	12 112	23 061	219 122	823 850	658 763	1 497 644	64 339
Alaska	5	21	—	c	D	D	D	D	D	D	D	D
Arizona	1	359	79	7 965	162 592	6 439	11 935	114 074	382 026	289 044	673 444	20 099
Arkansas	1	210	54	10 530	213 720	8 765	15 438	158 443	447 444	453 988	896 926	22 305
California	1	2 739	681	65 184	1 562 883	51 723	98 247	1 026 926	3 653 775	3 024 209	6 677 893	133 291
Colorado	1	344	55	5 041	125 111	4 056	7 666	82 227	241 445	220 832	458 681	10 706
Connecticut	3	246	42	3 124	92 197	2 414	4 651	58 981	185 524	139 958	327 553	9 976
Delaware	1	33	4	548	14 208	449	874	10 422	35 862	35 798	70 512	2 068
District of Columbia	—	2	1	c	D	D	D	D	D	D	D	D
Florida	2	1 418	175	18 364	405 786	14 145	25 612	258 477	885 197	803 038	1 681 403	45 700
Georgia	1	677	126	13 953	324 190	11 425	22 309	232 475	903 797	748 790	1 655 715	36 391
Hawaii *	3	47	5	372	10 339	286	554	6 931	23 608	18 302	40 407	D
Idaho	2	142	16	1 782	36 662	1 520	2 731	27 328	74 474	61 794	136 446	2 942
Illinois	1	844	179	19 878	558 800	15 114	29 506	350 496	1 356 198	1 207 647	2 580 407	54 876
Indiana	—	507	184	26 091	665 095	21 630	44 541	479 715	1 591 681	1 278 323	2 857 278	75 660
Iowa	—	180	42	7 836	216 947	6 573	13 401	171 725	610 886	501 769	1 110 402	44 008
Kansas	1	181	43	4 687	109 723	3 769	7 259	73 244	259 615	187 990	445 663	13 075
Kentucky	1	218	58	5 318	115 542	4 364	8 338	81 994	255 121	217 150	483 463	13 195
Louisiana	4	123	15	1 332	24 714	1 050	1 639	16 920	53 285	49 949	103 412	3 613
Maine	—	100	17	1 699	45 702	1 207	2 307	28 268	102 245	62 648	166 575	4 970
Maryland	2	247	47	4 306	105 632	3 171	5 697	63 468	234 015	209 040	444 396	8 717
Massachusetts	1	357	76	6 840	202 912	5 118	9 961	126 064	464 165	388 024	853 991	24 249
Michigan	—	604	162	34 188	1 305 186	24 888	51 921	764 763	3 631 022	2 303 957	5 921 099	234 490
Minnesota	1	513	106	11 679	325 749	8 849	17 007	209 791	739 724	598 988	1 339 547	43 735
Mississippi	1	368	173	31 207	670 619	25 932	47 884	487 502	1 523 449	1 713 410	3 215 660	50 753
Missouri	1	444	90	11 504	292 320	9 426	18 342	209 425	636 321	577 829	1 221 784	25 672
Montana	2	84	10	750	15 176	608	1 012	10 492	28 491	23 490	52 101	1 432
Nebraska	1	105	21	3 075	77 462	2 396	4 469	50 819	206 778	165 392	369 997	9 582
Nevada	1	109	21	1 626	43 262	1 324	2 536	30 025	112 823	86 123	198 850	4 198
New Hampshire	2	104	15	1 547	40 305	1 082	2 036	22 950	71 789	64 126	137 944	D
New Jersey	3	534	113	8 920	262 569	6 883	13 323	166 415	530 863	478 772	1 008 284	24 055
New Mexico	4	129	7	9	D	D	D	D	D	D	D	D
New York	2	1 134	221	20 398	547 525	15 760	29 794	344 797	1 179 269	833 814	2 000 055	79 754
North Carolina	—	1 177	458	81 367	1 811 013	69 748	134 914	1 400 597	3 799 624	3 407 519	7 219 049	149 313
North Dakota	1	51	11	1 076	23 709	799	1 483	15 634	46 191	40 005	86 453	3 350
Ohio	—	735	142	20 755	585 577	16 200	32 844	397 637	1 566 188	1 460 153	3 028 202	109 403
Oklahoma	1	166	38	3 507	77 307	2 715	4 882	53 781	154 092	118 428	270 760	8 509
Oregon	1	376	69	6 081	149 654	4 660	8 886	99 193	303 580	264 888	571 405	12 049
Pennsylvania	1	853	205	24 509	649 817	18 933	36 971	433 858	1 586 214	1 236 458	2 819 824	68 869
Rhode Island	4	68	21	1 915	49 634	1 400	2 807	29 049	104 328	95 814	201 889	8 510
South Carolina	1	194	38	5 450	119 591	4 499	8 342	84 731	283 274	283 064	571 613	11 607
South Dakota	1	54	12	1 479	34 247	1 181	2 181	23 766	66 449	57 215	124 224	4 733
Tennessee	1	561	166	26 529	566 590	22 189	40 967	408 756	1 184 467	1 177 912	2 365 424	56 314
Texas	1	1 031	245	27 305	606 973	21 407	41 616	398 319	1 438 999	1 268 716	2 708 879	74 686
Utah	1	255	53	5 586	129 700	4 425	8 446	93 835	268 667	215 932	484 794	9 476
Vermont	1	81	18	2 662	61 824	2 392	4 748	52 303	95 606	86 139	181 123	23 828
Virginia	1	471	109	23 642	504 925	20 584	41 258	394 540	1 202 883	966 738	2 173 743	63 852
Washington	1	474	90	7 351	188 121	5 846	11 156	125 077	383 238	292 892	679 531	17 221
West Virginia	2	66	14	1 161	24 403	914	1 644	16 143	50 058	55 309	104 993	2 687
Wisconsin	1	504	131	17 301	487 075	13 076	27 382	285 494	1 008 655	993 964	1 989 832	48 143
Wyoming	5	27	2	c	D	D	D	D	D	D	D	D
<b>339. MISCELLANEOUS MFG</b>												
United States	1	31 476	5 875	725 396	21 618 204	492 558	938 191	10 970 663	61 452 548	38 263 345	99 729 798	3 432 599
Alabama	2	341	59	7 511	171 636	5 715	10 355	100 869	466 401	400 339	862 179	27 471
Alaska	4	46	2	168	4 684	129	277	3 065	9 394	6 212	15 456	1 737
Arizona	1	512	79	8 627	257 689	5 428	9 830	109 337	697 475	392 332	1 087 049	38 196
Arkansas	1	228	53	8 288	185 891	6 074	11 422	108 806	529 549	391 221	935 857	17 214
California	1	4 525	838	97 208	3 213 209	63 157	120 247	1 429 778	9 456 437	5 136 774	14 552 006	524 868
Colorado	2	683	96	10 289	320 020	7 010	13 661	140 302	782 336	391 296	1 184 643	37 037
Connecticut	—	452	108	15 969	553 857	9 928	18 981	270 319	2 303 473	942 548	3 227 828	143 960
Delaware	—	53	6	1 319	41 450	800	1 088	11 198	113 370	72 818	187 615	6 632
District of Columbia	5	20	2	134	4 099	91	181	2 054	8 348	2 921	11 013	180
Florida	1	1 913	211	27 700	821 523	18 285	33 841	382 489	2 852 297	1 085 395	3 927 620	140 345
Georgia	1	676	97	16 213	490 927	11 540	23 933	252 577	1 238 034	911 899	2 207 835	96 176
Hawaii *	5	146	13	1 372	31 297	767	1 305	15 528	71 149	36 239	106 043	2 670
Idaho	2	157	13	1 271	29 190	908	1 523	16 185	93 359	33 456	122 745	3 319
Illinois	1	1 384	311	39 443	1 274 636	26 325	50 822	627 122	3 038 449	2 406 481	5 457 160	185 266
Indiana	—	616	149	23 045	731 447	16 113	30 063	399 816	2 677 284	1 134 042	3 826 163	105 671
Iowa	1	267	47	5 389	157 638	3 659	7 008	83 904	425 628	273 797	697 731	43 019
Kansas	1	236	54	5 022	115 167	3 817	7 330	71 537	425 386	174 006	611 251	17 134
Kentucky	1	273	54	6 903	170 670	5 334	9 814	106 110	608 633	364 237	967 731	33 595
Louisiana	1	269	32	3 721	85 765	2 744	4 481	49 377	248 948	205 040	450 537	8 190
Maine	4	131	21	1 573	36 977	1 085	1 855	18 913	78 610	54 490	131 315	5 212

See footnotes at end of table.

**Table 1-2. Industry Statistics for Subsectors by Selected States: 1997—Con.**

[For information on geographic areas followed by \* and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>339. MISCELLANEOUS MFG—Con.</b>												
Maryland . . . . .	2	424	71	5 875	178 749	3 998	7 465	96 774	392 301	290 127	679 366	28 798
Massachusetts . . . . .	1	846	234	31 550	1 098 733	19 486	38 240	513 074	3 318 607	1 829 543	5 181 851	172 782
Michigan . . . . .	1	1 016	160	17 926	534 616	11 481	22 039	270 498	1 439 886	971 461	2 411 114	77 206
Minnesota . . . . .	1	695	170	23 520	767 844	14 119	27 395	342 518	1 914 702	1 119 811	3 042 471	114 563
Mississippi . . . . .	1	178	32	4 929	112 044	3 831	7 024	73 840	295 402	230 338	532 933	11 245
Missouri . . . . .	1	601	137	13 427	363 613	8 902	16 707	181 350	966 237	589 337	1 554 699	46 172
Montana . . . . .	3	143	15	1 405	29 889	1 123	1 913	19 730	78 210	43 249	120 927	2 856
Nebraska . . . . .	1	163	30	4 697	128 904	3 794	7 738	91 981	858 348	218 713	1 080 094	33 177
Nevada . . . . .	1	236	48	6 115	197 647	3 486	6 890	81 705	405 452	394 985	804 959	89 163
New Hampshire . . . . .	1	184	38	6 408	176 952	4 229	8 697	102 892	448 369	283 458	734 056	28 292
New Jersey . . . . .	1	979	224	26 148	946 768	16 476	31 440	394 817	2 383 334	1 471 943	3 847 110	170 611
New Mexico . . . . .	2	287	38	4 393	95 352	3 166	5 697	57 715	240 156	298 233	537 261	12 056
New York . . . . .	2	2 732	527	57 334	1 684 977	40 420	76 613	906 037	4 095 327	3 343 426	7 406 133	199 429
North Carolina . . . . .	1	744	133	18 512	506 297	13 584	25 276	286 883	1 465 942	1 084 422	2 567 964	96 068
North Dakota . . . . .	2	58	8	695	15 722	471	788	8 623	28 404	26 029	55 331	1 772
Ohio . . . . .	1	1 147	254	29 447	831 352	21 003	40 500	459 940	2 408 428	1 628 267	4 027 234	129 354
Oklahoma . . . . .	2	314	48	5 409	123 177	3 653	6 402	66 644	364 906	295 606	670 136	18 481
Oregon . . . . .	2	591	82	8 899	242 003	5 911	10 500	121 233	522 579	368 975	882 242	34 509
Pennsylvania . . . . .	1	1 207	281	35 256	1 054 746	23 955	45 946	562 487	2 669 089	1 711 110	4 337 207	137 410
Rhode Island . . . . .	2	710	159	17 327	458 208	12 233	23 389	246 654	1 123 748	837 675	1 964 569	47 769
South Carolina . . . . .	1	242	38	5 767	138 968	4 612	8 696	89 992	438 210	263 964	697 042	20 291
South Dakota . . . . .	—	103	23	3 913	100 773	2 721	5 801	68 153	495 768	242 369	738 163	23 418
Tennessee . . . . .	—	526	119	20 219	553 847	14 346	27 086	313 675	1 894 806	1 190 920	3 125 132	97 370
Texas . . . . .	2	1 861	308	39 572	1 036 017	28 128	54 033	572 094	3 225 495	2 255 293	5 464 689	156 691
Utah . . . . .	—	340	62	12 845	340 271	8 512	18 259	170 833	878 684	552 751	1 419 360	67 143
Vermont . . . . .	—	115	23	2 193	53 381	1 492	2 542	27 048	164 248	152 164	306 875	11 182
Virginia . . . . .	1	480	77	9 620	263 470	7 040	13 362	155 144	598 304	605 783	1 217 814	34 691
Washington . . . . .	2	848	110	10 205	288 007	7 048	12 577	152 535	733 318	470 258	1 193 435	45 480
West Virginia . . . . .	—	81	10	1 282	30 571	967	1 707	19 244	157 003	37 511	193 493	4 309
Wisconsin . . . . .	1	656	166	18 948	558 227	13 172	24 984	311 913	1 304 871	1 026 907	2 335 373	81 181
Wyoming . . . . .	5	41	5	395	9 307	290	468	5 351	17 854	13 174	30 988	1 238

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

<sup>2</sup>States 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 1-3. Detailed Statistics by Subsector: 1997**

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

Item	Value	Item	Value
<b>31-33, MANUFACTURING</b>		<b>311, FOOD MFG—Con.</b>	
Companies <sup>1</sup> .....	number.. 316 952	Quantity of electricity purchased for heat and power .....	1,000 kWh.. D
All establishments .....	number.. 362 829	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 4 342 538
Establishments with 1 to 19 employees .....	number.. 243 081	Total value of shipments .....	\$1,000.. 421 737 017
Establishments with 20 to 99 employees .....	number.. 84 826	Value of resales .....	\$1,000.. 20 503 560
Establishments with 100 employees or more .....	number.. 34 922	Value added .....	\$1,000.. 163 675 301
All employees .....	number.. 16 805 127	Total inventories, beginning of year .....	\$1,000.. 29 482 461
Total compensation .....	\$1,000.. 716 594 764	Finished goods inventories, beginning of year .....	\$1,000.. 16 162 641
Annual payroll .....	\$1,000.. 569 808 845	Work-in-process inventories, beginning of year .....	\$1,000.. 2 963 768
Total fringe benefits .....	\$1,000.. 146 785 919	Materials and supplies inventories, beginning of year .....	\$1,000.. 10 356 052
Production workers, average for year .....	number.. 12 065 257	Total inventories, end of year .....	\$1,000.. 30 151 960
Production workers on March 12 .....	number.. 11 967 377	Finished goods inventories, end of year .....	\$1,000.. 16 532 124
Production workers on May 12 .....	number.. 12 034 012	Work-in-process inventories, end of year .....	\$1,000.. 3 021 448
Production workers on August 12 .....	number.. 12 133 773	Materials and supplies inventories, end of year .....	\$1,000.. 10 598 388
Production workers on November 12 .....	number.. 12 125 866	Gross book value of total assets at beginning of year .....	\$1,000.. 112 781 776
Production-worker hours .....	1,000.. 24 183 271	Total capital expenditures (new and used) .....	\$1,000.. 10 799 165
Production-worker wages .....	\$1,000.. 338 267 197	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 2 141 268
Total cost of materials .....	\$1,000.. 2 015 424 556	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 8 657 897
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 1 782 463 976	Total retirements .....	\$1,000.. 4 440 529
Cost of resales .....	\$1,000.. 113 751 236	Gross book value of total assets at end of year .....	\$1,000.. 119 140 412
Cost of fuels .....	\$1,000.. 26 214 645	Total depreciation during year .....	\$1,000.. 7 298 906
Cost of purchased electricity .....	\$1,000.. 38 695 146	Total rental payments .....	\$1,000.. 2 366 497
Cost of contract work .....	\$1,000.. 54 299 553	Buildings on other structures rental payments .....	\$1,000.. 849 480
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 827 353 664	Machinery and equipment rental payments .....	\$1,000.. 1 517 017
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 92 643 862	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 515 555
Total value of shipments .....	\$1,000.. 3 834 700 920	Response coverage ratio <sup>3</sup> .....	percent.. 79
Value of resales .....	\$1,000.. 152 483 275	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 2 571 842
Value added .....	\$1,000.. 1 825 688 027	Response coverage ratio <sup>3</sup> .....	percent.. 79
Total inventories, beginning of year .....	\$1,000.. 419 977 777	Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 472 199
Finished goods inventories, beginning of year .....	\$1,000.. 142 400 832	Response coverage ratio <sup>3</sup> .....	percent.. 79
Work-in-process inventories, beginning of year .....	\$1,000.. 132 553 508	Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 148 847
Materials and supplies inventories, beginning of year .....	\$1,000.. 145 023 437	Response coverage ratio <sup>3</sup> .....	percent.. 79
Total inventories, end of year .....	\$1,000.. 433 448 730	Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 141 396
Finished goods inventories, end of year .....	\$1,000.. 147 646 704	Response coverage ratio <sup>3</sup> .....	percent.. 79
Work-in-process inventories, end of year .....	\$1,000.. 133 710 385	Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 975 425
Materials and supplies inventories, end of year .....	\$1,000.. 152 091 641	Response coverage ratio <sup>3</sup> .....	percent.. 79
Gross book value of total assets at beginning of year .....	\$1,000.. 1 446 452 439	Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 102 458
Total capital expenditures (new and used) .....	\$1,000.. 151 510 757	Response coverage ratio <sup>3</sup> .....	percent.. 79
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 23 424 681	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 323 311
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 128 086 076	Response coverage ratio <sup>3</sup> .....	percent.. 79
Total retirements .....	\$1,000.. 46 658 714	<b>312, BEVERAGE &amp; TOBACCO PRODUCT MFG</b>	
Gross book value of total assets at end of year .....	\$1,000.. 1 551 319 045	Companies <sup>1</sup> .....	number.. 2 237
Total depreciation during year .....	\$1,000.. 100 256 983	All establishments .....	number.. 2 727
Total rental payments .....	\$1,000.. 29 250 951	Establishments with 1 to 19 employees .....	number.. 1 698
Buildings on other structures rental payments .....	\$1,000.. 13 651 200	Establishments with 20 to 99 employees .....	number.. 630
Machinery and equipment rental payments .....	\$1,000.. 15 599 573	Establishments with 100 employees or more .....	number.. 399
Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 5 966 006	All employees .....	number.. 175 711
Response coverage ratio <sup>3</sup> .....	percent.. 78	Total compensation .....	\$1,000.. 8 799 206
Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 27 926 648	Annual payroll .....	\$1,000.. 6 735 295
Response coverage ratio <sup>3</sup> .....	percent.. 78	Total fringe benefits .....	\$1,000.. 2 063 911
Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 7 851 671	Production workers, average for year .....	number.. 98 389
Response coverage ratio <sup>3</sup> .....	percent.. 78	Production workers on March 12 .....	number.. 96 813
Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 4 083 989	Production workers on May 12 .....	number.. 96 777
Response coverage ratio <sup>3</sup> .....	percent.. 78	Production workers on August 12 .....	number.. 100 961
Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 2 302 489	Production workers on November 12 .....	number.. 99 005
Response coverage ratio <sup>3</sup> .....	percent.. 78	Production-worker hours .....	1,000.. 196 693
Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 11 254 156	Production-worker wages .....	\$1,000.. 3 554 784
Response coverage ratio <sup>3</sup> .....	percent.. 78	Total cost of materials .....	\$1,000.. 41 276 110
Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 5 136 972	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 37 740 729
Response coverage ratio <sup>3</sup> .....	percent.. 78	Cost of resales .....	\$1,000.. 2 692 199
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 4 461 775	Cost of fuels .....	\$1,000.. 256 256
Response coverage ratio <sup>3</sup> .....	percent.. 78	Cost of purchased electricity .....	\$1,000.. 421 484
<b>311, FOOD MFG</b>		Cost of contract work .....	\$1,000.. 165 442
Companies <sup>1</sup> .....	number.. 21 958	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 7 649 042
All establishments .....	number.. 26 302	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 598 347
Establishments with 1 to 19 employees .....	number.. 17 576	Total value of shipments .....	\$1,000.. 96 971 368
Establishments with 20 to 99 employees .....	number.. 5 509	Value of resales .....	\$1,000.. 3 638 096
Establishments with 100 employees or more .....	number.. 3 217	Value added .....	\$1,000.. 56 433 891
All employees .....	number.. 1 466 956	Total inventories, beginning of year .....	\$1,000.. 13 302 961
Total compensation .....	\$1,000.. 48 695 471	Finished goods inventories, beginning of year .....	\$1,000.. 3 542 159
Annual payroll .....	\$1,000.. 38 366 240	Work-in-process inventories, beginning of year .....	\$1,000.. 2 990 064
Total fringe benefits .....	\$1,000.. 10 329 231	Materials and supplies inventories, beginning of year .....	\$1,000.. 6 770 738
Production workers, average for year .....	number.. 1 112 307	Total inventories, end of year .....	\$1,000.. 14 188 142
Production workers on March 12 .....	number.. 1 085 212	Finished goods inventories, end of year .....	\$1,000.. 3 838 636
Production workers on May 12 .....	number.. 1 089 573	Work-in-process inventories, end of year .....	\$1,000.. 3 634 606
Production workers on August 12 .....	number.. 1 160 280	Materials and supplies inventories, end of year .....	\$1,000.. 6 714 900
Production workers on November 12 .....	number.. 1 114 163	Gross book value of total assets at beginning of year .....	\$1,000.. 32 888 992
Production-worker hours .....	1,000.. 2 234 216	Total capital expenditures (new and used) .....	\$1,000.. 3 100 543
Production-worker wages .....	\$1,000.. 25 185 751	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 429 692
Total cost of materials .....	\$1,000.. 258 537 984	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 670 851
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 234 511 544	Total retirements .....	\$1,000.. 618 487
Cost of resales .....	\$1,000.. 17 396 353	Gross book value of total assets at end of year .....	\$1,000.. 35 371 048
Cost of fuels .....	\$1,000.. 2 466 786	Total depreciation during year .....	\$1,000.. 1 786 180
Cost of purchased electricity .....	\$1,000.. 3 117 392		
Cost of contract work .....	\$1,000.. 1 045 909		



**Table 1-3. Detailed Statistics by Subsector: 1997—Con.**

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

Item	Value	Item	Value
<b>315, APPAREL MFG—Con.</b>		<b>316, LEATHER &amp; ALLIED PRODUCT MFG—Con.</b>	
Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	7 056 359	Total rental payments . . . . .	\$1,000.. 85 619
Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	D	Buildings on other structures rental payments . . . . .	\$1,000.. 41 153
Total value of shipments . . . . . \$1,000..	68 018 116	Machinery and equipment rental payments . . . . .	\$1,000.. 44 466
Value of resales . . . . . \$1,000..	3 947 595	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . .	\$1,000.. 9 790
Value added . . . . . \$1,000..	33 780 193	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Total inventories, beginning of year . . . . . \$1,000..	8 856 417	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . .	\$1,000.. 37 940
Finished goods inventories, beginning of year . . . . . \$1,000..	4 204 660	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Work-in-process inventories, beginning of year . . . . . \$1,000..	1 825 616	Cost of purchased communications services <sup>2</sup> . . . . .	\$1,000.. 12 993
Materials and supplies inventories, beginning of year . . . . . \$1,000..	2 826 141	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Total inventories, end of year . . . . . \$1,000..	9 266 744	Cost of purchased legal services <sup>2</sup> . . . . .	\$1,000.. 13 418
Finished goods inventories, end of year . . . . . \$1,000..	4 465 689	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Work-in-process inventories, end of year . . . . . \$1,000..	2 010 164	Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . .	\$1,000.. 11 303
Materials and supplies inventories, end of year . . . . . \$1,000..	2 790 891	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Gross book value of total assets at beginning of year . . . . . \$1,000..	8 525 700	Cost of purchased advertising services <sup>2</sup> . . . . .	\$1,000.. 110 085
Total capital expenditures (new and used) . . . . . \$1,000..	941 178	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Capital expenditures for buildings and other structures (new and used) . . . . .	\$1,000.. 224 954	Cost of purchased software and other data processing services <sup>2</sup> . . . . .	\$1,000.. 12 683
Capital expenditures for machinery and equipment (new and used) . . . . .	\$1,000.. 716 224	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Total retirements . . . . . \$1,000..	311 442	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . .	\$1,000.. 9 981
Gross book value of total assets at end of year . . . . . \$1,000..	9 155 436	Response coverage ratio <sup>3</sup> . . . . . percent..	68
Total depreciation during year . . . . . \$1,000..	798 817	<b>321, WOOD PRODUCT MFG</b>	
Total rental payments . . . . . \$1,000..	696 107	Companies <sup>1</sup> . . . . . number..	15 621
Buildings on other structures rental payments . . . . . \$1,000..	400 468	All establishments . . . . . number..	17 367
Machinery and equipment rental payments . . . . . \$1,000..	295 639	Establishments with 1 to 19 employees . . . . .	number.. 11 558
Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . .	\$1,000.. 63 657	Establishments with 20 to 99 employees . . . . .	number.. 4 436
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Establishments with 100 employees or more . . . . .	number.. 1 373
Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . .	\$1,000.. 130 513	All employees . . . . . number..	570 034
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Total compensation . . . . . \$1,000..	17 698 996
Cost of purchased communications services <sup>2</sup> . . . . .	\$1,000.. 78 403	Annual payroll . . . . . \$1,000..	14 319 193
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Total fringe benefits . . . . . \$1,000..	3 379 803
Cost of purchased legal services <sup>2</sup> . . . . . \$1,000..	44 053	Production workers, average for year . . . . .	number.. 476 225
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Production workers on March 12 . . . . .	number.. 468 960
Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . .	\$1,000.. 42 843	Production workers on May 12 . . . . .	number.. 476 810
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Production workers on August 12 . . . . .	number.. 481 640
Cost of purchased advertising services <sup>2</sup> . . . . . \$1,000..	162 850	Production workers on November 12 . . . . .	number.. 477 490
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Production-worker hours . . . . . 1,000..	948 438
Cost of purchased software and other data processing services <sup>2</sup> . . . . .	\$1,000.. 49 051	Production-worker wages . . . . . \$1,000..	10 567 993
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Total cost of materials . . . . . \$1,000..	55 299 641
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . .	\$1,000.. 21 862	Cost of materials, parts, containers, etc., consumed . . . . .	\$1,000.. 50 648 399
Response coverage ratio <sup>3</sup> . . . . . percent..	62	Cost of resales . . . . . \$1,000..	2 286 723
<b>316, LEATHER &amp; ALLIED PRODUCT MFG</b>		Cost of fuels . . . . . \$1,000..	416 750
Companies <sup>1</sup> . . . . . number..	1 727	Cost of purchased electricity . . . . . \$1,000..	1 095 563
All establishments . . . . . number..	1 861	Cost of contract work . . . . . \$1,000..	852 206
Establishments with 1 to 19 employees . . . . .	number.. 1 264	Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	21 861 363
Establishments with 20 to 99 employees . . . . .	number.. 383	Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	578 072
Establishments with 100 employees or more . . . . .	number.. 214	Total value of shipments . . . . . \$1,000..	88 470 180
All employees . . . . . number..	85 115	Value of resales . . . . . \$1,000..	2 864 520
Total compensation . . . . . \$1,000..	2 237 088	Value added . . . . . \$1,000..	33 493 004
Annual payroll . . . . . \$1,000..	1 832 341	Total inventories, beginning of year . . . . . \$1,000..	8 822 850
Total fringe benefits . . . . . \$1,000..	404 747	Finished goods inventories, beginning of year . . . . . \$1,000..	3 222 245
Production workers, average for year . . . . .	number.. 68 733	Work-in-process inventories, beginning of year . . . . . \$1,000..	1 814 025
Production workers on March 12 . . . . .	number.. 68 645	Materials and supplies inventories, beginning of year . . . . . \$1,000..	3 786 580
Production workers on May 12 . . . . .	number.. 68 510	Total inventories, end of year . . . . . \$1,000..	9 441 249
Production workers on August 12 . . . . .	number.. 69 419	Finished goods inventories, end of year . . . . . \$1,000..	3 448 730
Production workers on November 12 . . . . .	number.. 68 358	Work-in-process inventories, end of year . . . . . \$1,000..	1 910 005
Production-worker hours . . . . . 1,000..	133 908	Materials and supplies inventories, end of year . . . . . \$1,000..	4 082 514
Production-worker wages . . . . . \$1,000..	1 185 870	Gross book value of total assets at beginning of year . . . . . \$1,000..	29 910 618
Total cost of materials . . . . . \$1,000..	5 480 529	Total capital expenditures (new and used) . . . . . \$1,000..	2 869 234
Cost of materials, parts, containers, etc., consumed . . . . .	\$1,000.. 4 564 810	Capital expenditures for buildings and other structures (new and used) . . . . .	\$1,000.. 544 270
Cost of resales . . . . . \$1,000..	622 025	Capital expenditures for machinery and equipment (new and used) . . . . .	\$1,000.. 2 324 964
Cost of fuels . . . . . \$1,000..	31 095	Total retirements . . . . . \$1,000..	674 699
Cost of purchased electricity . . . . . \$1,000..	62 032	Gross book value of total assets at end of year . . . . . \$1,000..	32 105 153
Cost of contract work . . . . . \$1,000..	200 567	Total depreciation during year . . . . . \$1,000..	1 970 630
Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	938 329	Total rental payments . . . . . \$1,000..	473 338
Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	1 419	Buildings on other structures rental payments . . . . .	\$1,000.. 210 572
Total value of shipments . . . . . \$1,000..	10 876 510	Machinery and equipment rental payments . . . . .	\$1,000.. 262 766
Value of resales . . . . . \$1,000..	977 361	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . .	\$1,000.. 89 098
Value added . . . . . \$1,000..	5 407 999	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Total inventories, beginning of year . . . . . \$1,000..	1 676 961	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . .	\$1,000.. 912 512
Finished goods inventories, beginning of year . . . . . \$1,000..	857 036	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Work-in-process inventories, beginning of year . . . . . \$1,000..	325 592	Cost of purchased communications services <sup>2</sup> . . . . .	\$1,000.. 104 680
Materials and supplies inventories, beginning of year . . . . . \$1,000..	494 333	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Total inventories, end of year . . . . . \$1,000..	1 717 650	Cost of purchased legal services <sup>2</sup> . . . . .	\$1,000.. 71 572
Finished goods inventories, end of year . . . . . \$1,000..	878 447	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Work-in-process inventories, end of year . . . . . \$1,000..	316 199	Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . .	\$1,000.. 53 976
Materials and supplies inventories, end of year . . . . . \$1,000..	523 004	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Gross book value of total assets at beginning of year . . . . . \$1,000..	1 608 450	Cost of purchased advertising services <sup>2</sup> . . . . .	\$1,000.. 112 681
Total capital expenditures (new and used) . . . . . \$1,000..	167 254	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Capital expenditures for buildings and other structures (new and used) . . . . .	\$1,000.. 24 896	Cost of purchased software and other data processing services <sup>2</sup> . . . . .	\$1,000.. 32 600
Capital expenditures for machinery and equipment (new and used) . . . . .	\$1,000.. 142 358	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Total retirements . . . . . \$1,000..	45 501	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . .	\$1,000.. 77 293
Gross book value of total assets at end of year . . . . . \$1,000..	1 730 203	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Total depreciation during year . . . . . \$1,000..	125 845		

**Table 1-3. Detailed Statistics by Subsector: 1997—Con.**

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

Item	Value	Item	Value
<b>322, PAPER MFG</b>		<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>	
—Con.		—Con.	
Companies <sup>1</sup> .....	number.. 3 808	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 14 287 756
All establishments .....	number.. 5 868	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Establishments with 1 to 19 employees .....	number.. 1 893	Total value of shipments .....	\$1,000.. 97 485 138
Establishments with 20 to 99 employees .....	number.. 2 325	Value of resales .....	\$1,000.. 3 738 750
Establishments with 100 employees or more .....	number.. 1 650	Value added .....	\$1,000.. 58 392 618
All employees .....	number.. 574 274	Total inventories, beginning of year .....	\$1,000.. 6 396 004
Total compensation .....	\$1,000.. 27 902 123	Finished goods inventories, beginning of year .....	\$1,000.. 1 486 219
Annual payroll .....	\$1,000.. 22 311 971	Work-in-process inventories, beginning of year .....	\$1,000.. 1 790 092
Total fringe benefits .....	\$1,000.. 5 590 152	Materials and supplies inventories, beginning of year .....	\$1,000.. 3 119 693
Production workers, average for year .....	number.. 440 096	Total inventories, end of year .....	\$1,000.. 6 621 144
Production workers on March 12 .....	number.. 437 936	Finished goods inventories, end of year .....	\$1,000.. 1 542 988
Production workers on May 12 .....	number.. 440 554	Work-in-process inventories, end of year .....	\$1,000.. 1 860 779
Production workers on August 12 .....	number.. 442 265	Materials and supplies inventories, end of year .....	\$1,000.. 3 217 377
Production workers on November 12 .....	number.. 439 629	Gross book value of total assets at beginning of year .....	\$1,000.. 40 149 605
Production-worker hours .....	1,000.. 935 795	Total capital expenditures (new and used) .....	\$1,000.. 5 052 110
Production-worker wages .....	\$1,000.. 15 187 973	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 717 131
Total cost of materials .....	\$1,000.. 80 189 518	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 334 979
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 70 005 351	Total retirements .....	\$1,000.. 1 278 473
Cost of resales .....	\$1,000.. D	Gross book value of total assets at end of year .....	\$1,000.. 43 923 242
Cost of fuels .....	\$1,000.. 3 364 259	Total depreciation during year .....	\$1,000.. 3 147 977
Cost of purchased electricity .....	\$1,000.. 2 910 025	Total rental payments .....	\$1,000.. 2 168 241
Cost of contract work .....	\$1,000.. D	Buildings on other structures rental payments .....	\$1,000.. 1 001 279
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 70 052 067	Machinery and equipment rental payments .....	\$1,000.. 1 166 962
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 44 958 910	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 151 340
Total value of shipments .....	\$1,000.. 150 295 890	Response coverage ratio <sup>3</sup> .....	percent.. 71
Value of resales .....	\$1,000.. D	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 692 803
Value added .....	\$1,000.. 70 300 235	Response coverage ratio <sup>3</sup> .....	percent.. 71
Total inventories, beginning of year .....	\$1,000.. 14 892 766	Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 273 353
Finished goods inventories, beginning of year .....	\$1,000.. 6 034 467	Response coverage ratio <sup>3</sup> .....	percent.. 71
Work-in-process inventories, beginning of year .....	\$1,000.. 1 457 681	Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 119 014
Materials and supplies inventories, beginning of year .....	\$1,000.. 7 400 618	Response coverage ratio <sup>3</sup> .....	percent.. 71
Total inventories, end of year .....	\$1,000.. 15 041 523	Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 122 588
Finished goods inventories, end of year .....	\$1,000.. 6 222 299	Response coverage ratio <sup>3</sup> .....	percent.. 71
Work-in-process inventories, end of year .....	\$1,000.. 1 463 712	Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 243 361
Materials and supplies inventories, end of year .....	\$1,000.. 7 355 512	Response coverage ratio <sup>3</sup> .....	percent.. 71
Gross book value of total assets at beginning of year .....	\$1,000.. 132 735 422	Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 104 137
Total capital expenditures (new and used) .....	\$1,000.. 8 595 133	Response coverage ratio <sup>3</sup> .....	percent.. 71
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 783 538	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 75 011
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 7 811 595	Response coverage ratio <sup>3</sup> .....	percent.. 71
Total retirements .....	\$1,000.. 1 951 864	<b>324, PETROLEUM &amp; COAL PRODUCTS MFG</b>	
Gross book value of total assets at end of year .....	\$1,000.. 139 378 691	Companies <sup>1</sup> .....	number.. 1 166
Total depreciation during year .....	\$1,000.. 6 922 762	All establishments .....	number.. 2 146
Total rental payments .....	\$1,000.. 1 187 547	Establishments with 1 to 19 employees .....	number.. 1 471
Buildings on other structures rental payments .....	\$1,000.. 554 267	Establishments with 20 to 99 employees .....	number.. 451
Machinery and equipment rental payments .....	\$1,000.. 633 280	Establishments with 100 employees or more .....	number.. 224
Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 365 244	All employees .....	number.. 107 625
Response coverage ratio <sup>3</sup> .....	percent.. 90	Total compensation .....	\$1,000.. 7 125 300
Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 3 015 876	Annual payroll .....	\$1,000.. 5 546 082
Response coverage ratio <sup>3</sup> .....	percent.. 90	Total fringe benefits .....	\$1,000.. 1 579 218
Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 192 036	Production workers, average for year .....	number.. 71 554
Response coverage ratio <sup>3</sup> .....	percent.. 90	Production workers on March 12 .....	number.. 70 333
Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 96 178	Production workers on May 12 .....	number.. 72 107
Response coverage ratio <sup>3</sup> .....	percent.. 90	Production workers on August 12 .....	number.. 72 830
Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 47 952	Production workers on November 12 .....	number.. 70 946
Response coverage ratio <sup>3</sup> .....	percent.. 90	Production-worker hours .....	1,000.. 161 036
Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 124 295	Production-worker wages .....	\$1,000.. 3 421 272
Response coverage ratio <sup>3</sup> .....	percent.. 90	Total cost of materials .....	\$1,000.. 139 509 979
Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 116 382	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 129 449 959
Response coverage ratio <sup>3</sup> .....	percent.. 90	Cost of resales .....	\$1,000.. 3 836 130
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 313 588	Cost of fuels .....	\$1,000.. 2 801 312
Response coverage ratio <sup>3</sup> .....	percent.. 90	Cost of purchased electricity .....	\$1,000.. 1 909 641
<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>		Cost of contract work .....	\$1,000.. 1 512 937
Companies <sup>1</sup> .....	number.. 40 987	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 39 986 851
All establishments .....	number.. 42 863	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 9 087 663
Establishments with 1 to 19 employees .....	number.. 34 654	Total value of shipments .....	\$1,000.. 177 393 098
Establishments with 20 to 99 employees .....	number.. 6 677	Value of resales .....	\$1,000.. 4 024 772
Establishments with 100 employees or more .....	number.. 1 532	Value added .....	\$1,000.. 37 610 773
All employees .....	number.. 834 404	Total inventories, beginning of year .....	\$1,000.. 12 009 719
Total compensation .....	\$1,000.. 31 148 808	Finished goods inventories, beginning of year .....	\$1,000.. 5 604 457
Annual payroll .....	\$1,000.. 26 022 991	Work-in-process inventories, beginning of year .....	\$1,000.. 2 668 928
Total fringe benefits .....	\$1,000.. 5 125 817	Materials and supplies inventories, beginning of year .....	\$1,000.. 3 736 334
Production workers, average for year .....	number.. 607 637	Total inventories, end of year .....	\$1,000.. 11 492 679
Production workers on March 12 .....	number.. 606 709	Finished goods inventories, end of year .....	\$1,000.. 5 152 940
Production workers on May 12 .....	number.. 606 932	Work-in-process inventories, end of year .....	\$1,000.. 2 848 099
Production workers on August 12 .....	number.. 607 083	Materials and supplies inventories, end of year .....	\$1,000.. 3 491 640
Production workers on November 12 .....	number.. 609 824	Gross book value of total assets at beginning of year .....	\$1,000.. 73 964 226
Production-worker hours .....	1,000.. 1 164 310	Total capital expenditures (new and used) .....	\$1,000.. 4 755 162
Production-worker wages .....	\$1,000.. 16 336 416	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 509 806
Total cost of materials .....	\$1,000.. 39 219 976	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 245 356
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 32 331 086	Total retirements .....	\$1,000.. 715 318
Cost of resales .....	\$1,000.. 2 571 995	Gross book value of total assets at end of year .....	\$1,000.. 78 004 070
Cost of fuels .....	\$1,000.. 269 415		
Cost of purchased electricity .....	\$1,000.. 862 966		
Cost of contract work .....	\$1,000.. 3 184 514		

Table 1-3. Detailed Statistics by Subsector: 1997—Con.

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

Item	Value	Item	Value
<b>324, PETROLEUM &amp; COAL PRODUCTS MFG—Con.</b>		<b>326, PLASTICS &amp; RUBBER PRODUCTS MFG</b>	
Total depreciation during year	\$1,000.. 3 321 421	Companies <sup>1</sup>	number.. 13 798
Total rental payments	\$1,000.. 417 799	All establishments	number.. 16 821
Buildings on other structures rental payments	\$1,000.. 136 676	Establishments with 1 to 19 employees	number.. 8 179
Machinery and equipment rental payments	\$1,000.. 281 123	Establishments with 20 to 99 employees	number.. 5 917
Establishments with 100 employees or more		Establishments with 100 employees or more	number.. 2 725
Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 124 533	All employees	number.. 1 023 060
Response coverage ratio <sup>3</sup>	percent.. 76	Total compensation	\$1,000.. 37 564 944
Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 1 383 125	Annual payroll	\$1,000.. 29 804 904
Response coverage ratio <sup>3</sup>	percent.. 76	Total fringe benefits	\$1,000.. 7 760 040
Cost of purchased communications services <sup>2</sup>	\$1,000.. 47 641	Production workers, average for year	number.. 805 689
Response coverage ratio <sup>3</sup>	percent.. 76	Production workers on March 12	number.. 800 626
Cost of purchased legal services <sup>2</sup>	\$1,000.. 46 015	Production workers on May 12	number.. 806 226
Response coverage ratio <sup>3</sup>	percent.. 76	Production workers on August 12	number.. 806 310
Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 19 417	Production workers on November 12	number.. 809 594
Response coverage ratio <sup>3</sup>	percent.. 76	Production-worker hours	1,000.. 1 607 820
Cost of purchased advertising services <sup>2</sup>	\$1,000.. 32 644	Production-worker wages	\$1,000.. 19 828 676
Response coverage ratio <sup>3</sup>	percent.. 76	Total cost of materials	\$1,000.. 77 994 466
Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 41 897	Cost of materials, parts, containers, etc., consumed	\$1,000.. 69 621 432
Response coverage ratio <sup>3</sup>	percent.. 76	Cost of resales	\$1,000.. D
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 135 985	Cost of fuels	\$1,000.. 616 316
Response coverage ratio <sup>3</sup>	percent.. 76	Cost of purchased electricity	\$1,000.. 2 715 691
		Cost of contract work	\$1,000.. D
		Quantity of electricity purchased for heat and power	1,000 kWh.. 49 876 149
		Quantity of electricity generated less sold for heat and power	1,000 kWh.. 54 511
		Total value of shipments	\$1,000.. 159 161 346
		Value of resales	\$1,000.. D
		Value added	\$1,000.. 81 349 082
<b>325, CHEMICAL MFG</b>		Total inventories, beginning of year	\$1,000.. 15 574 510
Companies <sup>1</sup>	number.. 9 626	Finished goods inventories, beginning of year	\$1,000.. 7 159 313
All establishments	number.. 13 474	Work-in-process inventories, beginning of year	\$1,000.. 2 109 296
Establishments with 1 to 19 employees	number.. 7 745	Materials and supplies inventories, beginning of year	\$1,000.. 6 305 901
Establishments with 20 to 99 employees	number.. 3 953		
Establishments with 100 employees or more	number.. 1 776	Total inventories, end of year	\$1,000.. 15 979 716
All employees	number.. 882 645	Finished goods inventories, end of year	\$1,000.. 7 260 449
Total compensation	\$1,000.. 50 310 027	Work-in-process inventories, end of year	\$1,000.. 2 190 362
Annual payroll	\$1,000.. 39 835 717	Materials and supplies inventories, end of year	\$1,000.. 6 528 905
Total fringe benefits	\$1,000.. 10 474 310		
Production workers, average for year	number.. 512 152	Gross book value of total assets at beginning of year	\$1,000.. 70 033 707
Production workers on March 12	number.. 512 145	Total capital expenditures (new and used)	\$1,000.. 7 836 663
Production workers on May 12	number.. 512 930	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 1 077 018
Production workers on August 12	number.. 512 001	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 6 759 645
Production workers on November 12	number.. 511 532	Total retirements	\$1,000.. 1 946 969
Production-worker hours	1,000.. 1 068 966	Gross book value of total assets at end of year	\$1,000.. 75 923 401
Production-worker wages	\$1,000.. 19 192 170	Total depreciation during year	\$1,000.. 5 238 697
Total cost of materials	\$1,000.. 192 199 632	Total rental payments	\$1,000.. 1 715 051
Cost of materials, parts, containers, etc., consumed	\$1,000.. 163 071 376	Buildings on other structures rental payments	\$1,000.. 934 875
Cost of resales	\$1,000.. 12 954 229	Machinery and equipment rental payments	\$1,000.. 780 176
Cost of fuels	\$1,000.. 5 842 149	Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 247 799
Cost of purchased electricity	\$1,000.. 5 877 499	Response coverage ratio <sup>3</sup>	percent.. 80
Cost of contract work	\$1,000.. 4 454 379	Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 1 532 415
Quantity of electricity purchased for heat and power	1,000 kWh.. 157 082 253	Response coverage ratio <sup>3</sup>	percent.. 80
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 27 051 632	Cost of purchased communications services <sup>2</sup>	\$1,000.. 254 823
Total value of shipments	\$1,000.. 415 616 508	Response coverage ratio <sup>3</sup>	percent.. 80
Value of resales	\$1,000.. 22 040 507	Cost of purchased legal services <sup>2</sup>	\$1,000.. 200 611
Value added	\$1,000.. 224 684 500	Response coverage ratio <sup>3</sup>	percent.. 80
Total inventories, beginning of year	\$1,000.. 42 704 411	Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 111 077
Finished goods inventories, beginning of year	\$1,000.. 20 930 459	Response coverage ratio <sup>3</sup>	percent.. 80
Work-in-process inventories, beginning of year	\$1,000.. 7 290 211	Cost of purchased advertising services <sup>2</sup>	\$1,000.. 328 978
Materials and supplies inventories, beginning of year	\$1,000.. 14 483 741	Response coverage ratio <sup>3</sup>	percent.. 80
Total inventories, end of year	\$1,000.. 44 691 476	Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 155 136
Finished goods inventories, end of year	\$1,000.. 21 722 967	Response coverage ratio <sup>3</sup>	percent.. 80
Work-in-process inventories, end of year	\$1,000.. 7 765 327	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 197 125
Materials and supplies inventories, end of year	\$1,000.. 15 203 182	Response coverage ratio <sup>3</sup>	percent.. 80
Gross book value of total assets at beginning of year	\$1,000.. 229 687 922		
Total capital expenditures (new and used)	\$1,000.. 21 669 251	<b>327, NONMETALLIC MINERAL PRODUCT MFG</b>	
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 3 287 482	Companies <sup>1</sup>	number.. 11 921
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 18 381 769	All establishments	number.. 16 310
Total retirements	\$1,000.. 5 324 033	Establishments with 1 to 19 employees	number.. 11 023
Gross book value of total assets at end of year	\$1,000.. 246 033 140	Establishments with 20 to 99 employees	number.. 4 282
Total depreciation during year	\$1,000.. 13 533 819	Establishments with 100 employees or more	number.. 1 005
Total rental payments	\$1,000.. 2 543 664	All employees	number.. 501 471
Buildings on other structures rental payments	\$1,000.. 798 434	Total compensation	\$1,000.. 20 546 013
Machinery and equipment rental payments	\$1,000.. 1 745 230	Annual payroll	\$1,000.. 16 172 049
Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 1 027 049	Total fringe benefits	\$1,000.. 4 373 964
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers, average for year	number.. 388 898
Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 3 864 826	Production workers on March 12	number.. 382 463
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on May 12	number.. 389 881
Cost of purchased communications services <sup>2</sup>	\$1,000.. 502 423	Production workers on August 12	number.. 393 575
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on November 12	number.. 389 673
Cost of purchased legal services <sup>2</sup>	\$1,000.. 429 061	Production-worker hours	1,000.. 797 684
Response coverage ratio <sup>3</sup>	percent.. 82	Production-worker wages	\$1,000.. 11 319 464
Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 158 140	Total cost of materials	\$1,000.. 37 072 480
Response coverage ratio <sup>3</sup>	percent.. 82	Cost of materials, parts, containers, etc., consumed	\$1,000.. 29 445 504
Cost of purchased advertising services <sup>2</sup>	\$1,000.. 2 379 042	Cost of resales	\$1,000.. 2 813 385
Response coverage ratio <sup>3</sup>	percent.. 82	Cost of fuels	\$1,000.. 2 226 353
Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 409 248	Cost of purchased electricity	\$1,000.. 1 813 727
Response coverage ratio <sup>3</sup>	percent.. 82	Cost of contract work	\$1,000.. 773 511
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 799 215		
Response coverage ratio <sup>3</sup>	percent.. 82		

Table 1-3. Detailed Statistics by Subsector: 1997—Con.

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

Item	Value	Item	Value
<b>327, NONMETALLIC MINERAL PRODUCT MFG—Con.</b>		<b>331, PRIMARY METAL MFG—Con.</b>	
Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	37 627 285	Total depreciation during year . . . . .	\$1,000.. 4 915 218
Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	218 575	Total rental payments . . . . .	\$1,000.. 739 047
Total value of shipments . . . . . \$1,000..	86 464 708	Buildings on other structures rental payments . . . . .	\$1,000.. D
Value of resales . . . . . \$1,000..	3 623 829	Machinery and equipment rental payments . . . . .	\$1,000.. D
Value added . . . . . \$1,000..	49 425 491	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . .	\$1,000.. 347 334
Total inventories, beginning of year . . . . . \$1,000..	8 636 639	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Finished goods inventories, beginning of year . . . . . \$1,000..	4 433 370	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . .	\$1,000.. 3 064 246
Work-in-process inventories, beginning of year . . . . . \$1,000..	1 178 562	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Materials and supplies inventories, beginning of year . . . . . \$1,000..	3 024 707	Cost of purchased communications services <sup>2</sup> . . . . .	\$1,000.. 130 207
Total inventories, end of year . . . . . \$1,000..	8 840 326	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Finished goods inventories, end of year . . . . . \$1,000..	4 457 304	Cost of purchased legal services <sup>2</sup> . . . . .	\$1,000.. 137 784
Work-in-process inventories, end of year . . . . . \$1,000..	1 187 891	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Materials and supplies inventories, end of year . . . . . \$1,000..	3 195 131	Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . .	\$1,000.. 57 395
Gross book value of total assets at beginning of year . . . . . \$1,000..	52 111 157	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Total capital expenditures (new and used) . . . . . \$1,000..	4 798 921	Cost of purchased advertising services <sup>2</sup> . . . . .	\$1,000.. 71 736
Capital expenditures for buildings and other structures (new and used) . . . . . \$1,000..	D	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Capital expenditures for machinery and equipment (new and used) . . . . . \$1,000..	D	Cost of purchased software and other data processing services <sup>2</sup> . . . . .	\$1,000.. 174 824
Total retirements . . . . . \$1,000..	1 346 137	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Gross book value of total assets at end of year . . . . . \$1,000..	55 563 941	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . .	\$1,000.. 405 136
Total depreciation during year . . . . . \$1,000..	3 601 793	Response coverage ratio <sup>3</sup> . . . . . percent..	81
Total rental payments . . . . . \$1,000..	896 628	<b>332, FABRICATED METAL PRODUCT MFG</b>	
Buildings on other structures rental payments . . . . . \$1,000..	348 256	Companies <sup>1</sup> . . . . . number..	58 516
Machinery and equipment rental payments . . . . . \$1,000..	548 372	All establishments . . . . . number..	62 384
Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . . \$1,000..	196 262	Establishments with 1 to 19 employees . . . . . number..	43 363
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Establishments with 20 to 99 employees . . . . . number..	15 403
Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . . \$1,000..	1 480 806	Establishments with 100 employees or more . . . . . number..	3 618
Response coverage ratio <sup>3</sup> . . . . . percent..	77	All employees . . . . . number..	1 763 772
Cost of purchased communications services <sup>2</sup> . . . . . \$1,000..	138 707	Total compensation . . . . . \$1,000..	70 092 703
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Annual payroll . . . . . \$1,000..	56 631 583
Cost of purchased legal services <sup>2</sup> . . . . . \$1,000..	75 710	Total fringe benefits . . . . . \$1,000..	13 461 120
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Production workers, average for year . . . . . number..	1 327 053
Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . . \$1,000..	66 182	Production workers on March 12 . . . . . number..	1 311 357
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Production workers on May 12 . . . . . number..	1 321 311
Cost of purchased advertising services <sup>2</sup> . . . . . \$1,000..	145 941	Production workers on August 12 . . . . . number..	1 332 847
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Production workers on November 12 . . . . . number..	1 342 697
Cost of purchased software and other data processing services <sup>2</sup> . . . . . \$1,000..	56 066	Production-worker hours . . . . . 1,000..	2 674 948
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Production-worker wages . . . . . \$1,000..	36 251 771
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . . \$1,000..	132 812	Total cost of materials . . . . . \$1,000..	110 067 843
Response coverage ratio <sup>3</sup> . . . . . percent..	77	Cost of materials, parts, containers, etc., consumed . . . . . \$1,000..	91 741 837
<b>331, PRIMARY METAL MFG</b>		Cost of resales . . . . . \$1,000..	7 189 587
Companies <sup>1</sup> . . . . . number..	4 076	Cost of fuels . . . . . \$1,000..	1 187 949
All establishments . . . . . number..	5 059	Cost of purchased electricity . . . . . \$1,000..	2 504 217
Establishments with 1 to 19 employees . . . . . number..	1 982	Cost of contract work . . . . . \$1,000..	7 444 253
Establishments with 20 to 99 employees . . . . . number..	1 699	Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	41 510 070
Establishments with 100 employees or more . . . . . number..	1 378	Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	80 093
All employees . . . . . number..	605 085	Total value of shipments . . . . . \$1,000..	242 813 453
Total compensation . . . . . \$1,000..	31 787 971	Value of resales . . . . . \$1,000..	D
Annual payroll . . . . . \$1,000..	23 811 233	Value added . . . . . \$1,000..	133 493 077
Total fringe benefits . . . . . \$1,000..	7 976 738	Total inventories, beginning of year . . . . . \$1,000..	30 466 548
Production workers, average for year . . . . . number..	479 552	Finished goods inventories, beginning of year . . . . . \$1,000..	10 007 795
Production workers on March 12 . . . . . number..	476 419	Work-in-process inventories, beginning of year . . . . . \$1,000..	9 723 062
Production workers on May 12 . . . . . number..	477 740	Materials and supplies inventories, beginning of year . . . . . \$1,000..	10 735 691
Production workers on August 12 . . . . . number..	480 584	Total inventories, end of year . . . . . \$1,000..	31 774 159
Production workers on November 12 . . . . . number..	483 465	Finished goods inventories, end of year . . . . . \$1,000..	10 242 479
Production-worker hours . . . . . 1,000..	1 024 675	Work-in-process inventories, end of year . . . . . \$1,000..	10 235 845
Production-worker wages . . . . . \$1,000..	17 354 552	Materials and supplies inventories, end of year . . . . . \$1,000..	11 295 835
Total cost of materials . . . . . \$1,000..	99 343 265	Gross book value of total assets at beginning of year . . . . . \$1,000..	84 158 547
Cost of materials, parts, containers, etc., consumed . . . . . \$1,000..	85 560 755	Total capital expenditures (new and used) . . . . . \$1,000..	9 368 661
Cost of resales . . . . . \$1,000..	1 955 569	Capital expenditures for buildings and other structures (new and used) . . . . . \$1,000..	1 327 706
Cost of fuels . . . . . \$1,000..	3 276 586	Capital expenditures for machinery and equipment (new and used) . . . . . \$1,000..	8 040 955
Cost of purchased electricity . . . . . \$1,000..	4 764 636	Total retirements . . . . . \$1,000..	2 601 450
Cost of contract work . . . . . \$1,000..	3 785 719	Gross book value of total assets at end of year . . . . . \$1,000..	90 925 758
Quantity of electricity purchased for heat and power . . . . . 1,000 kWh..	132 605 129	Total depreciation during year . . . . . \$1,000..	6 210 175
Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	6 063 131	Total rental payments . . . . . \$1,000..	3 508 600
Total value of shipments . . . . . \$1,000..	168 117 728	Buildings on other structures rental payments . . . . . \$1,000..	1 713 187
Value of resales . . . . . \$1,000..	2 451 948	Machinery and equipment rental payments . . . . . \$1,000..	1 795 411
Value added . . . . . \$1,000..	68 749 487	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> . . . . . \$1,000..	452 485
Total inventories, beginning of year . . . . . \$1,000..	22 339 511	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Finished goods inventories, beginning of year . . . . . \$1,000..	6 737 495	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> . . . . . \$1,000..	1 882 411
Work-in-process inventories, beginning of year . . . . . \$1,000..	8 250 057	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Materials and supplies inventories, beginning of year . . . . . \$1,000..	7 351 959	Cost of purchased communications services <sup>2</sup> . . . . . \$1,000..	482 080
Total inventories, end of year . . . . . \$1,000..	22 727 686	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Finished goods inventories, end of year . . . . . \$1,000..	6 938 459	Cost of purchased legal services <sup>2</sup> . . . . . \$1,000..	436 112
Work-in-process inventories, end of year . . . . . \$1,000..	8 024 117	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Materials and supplies inventories, end of year . . . . . \$1,000..	7 765 110	Cost of purchased accounting and bookkeeping services services <sup>2</sup> . . . . . \$1,000..	277 295
Gross book value of total assets at beginning of year . . . . . \$1,000..	84 911 372	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Total capital expenditures (new and used) . . . . . \$1,000..	6 515 752	Cost of purchased advertising services <sup>2</sup> . . . . . \$1,000..	623 407
Capital expenditures for buildings and other structures (new and used) . . . . . \$1,000..	D	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Capital expenditures for machinery and equipment (new and used) . . . . . \$1,000..	D	Cost of purchased software and other data processing services <sup>2</sup> . . . . . \$1,000..	266 961
Total retirements . . . . . \$1,000..	1 852 957	Response coverage ratio <sup>3</sup> . . . . . percent..	76
Gross book value of total assets at end of year . . . . . \$1,000..	89 574 167	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> . . . . . \$1,000..	278 549
		Response coverage ratio <sup>3</sup> . . . . . percent..	76



**Table 1-3. Detailed Statistics by Subsector: 1997—Con.**

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

Item	Value	Item	Value
<b>333, MACHINERY MFG</b>		<b>334, COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>	
—Con.		—Con.	
Companies <sup>1</sup> .....	number.. 27 983	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 37 807 312
All establishments .....	number.. 30 599	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Establishments with 1 to 19 employees .....	number.. 19 389	Total value of shipments .....	\$1,000.. 439 381 300
Establishments with 20 to 99 employees .....	number.. 8 184	Value of resales .....	\$1,000.. 23 809 139
Establishments with 100 employees or more .....	number.. 3 026	Value added .....	\$1,000.. 252 629 768
All employees .....	number.. 1 420 512	Total inventories, beginning of year .....	\$1,000.. 50 060 531
Total compensation .....	\$1,000.. 66 367 624	Finished goods inventories, beginning of year .....	\$1,000.. 11 385 088
Annual payroll .....	\$1,000.. 53 012 226	Work-in-process inventories, beginning of year .....	\$1,000.. 20 675 702
Total fringe benefits .....	\$1,000.. 13 355 398	Materials and supplies inventories, beginning of year .....	\$1,000.. 17 999 741
Production workers, average for year .....	number.. 936 047	Total inventories, end of year .....	\$1,000.. 53 045 620
Production workers on March 12 .....	number.. 935 918	Finished goods inventories, end of year .....	\$1,000.. 12 346 594
Production workers on May 12 .....	number.. 937 005	Work-in-process inventories, end of year .....	\$1,000.. 20 837 795
Production workers on August 12 .....	number.. 933 562	Materials and supplies inventories, end of year .....	\$1,000.. 19 861 231
Production workers on November 12 .....	number.. 937 703	Gross book value of total assets at beginning of year .....	\$1,000.. 143 262 027
Production-worker hours .....	1,000.. 1 895 580	Total capital expenditures (new and used) .....	\$1,000.. 24 768 490
Production-worker wages .....	\$1,000.. 29 106 922	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 4 416 765
Total cost of materials .....	\$1,000.. 133 291 232	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 20 351 725
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 114 610 059	Total retirements .....	\$1,000.. 8 794 684
Cost of resales .....	\$1,000.. 11 918 830	Gross book value of total assets at end of year .....	\$1,000.. 159 250 346
Cost of fuels .....	\$1,000.. 511 192	Total depreciation during year .....	\$1,000.. 15 374 405
Cost of purchased electricity .....	\$1,000.. 1 553 817	Total rental payments .....	\$1,000.. 3 538 559
Cost of contract work .....	\$1,000.. 4 697 334	Buildings on other structures rental payments .....	\$1,000.. 2 115 411
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 26 947 941	Machinery and equipment rental payments .....	\$1,000.. 1 422 995
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 22 787	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 522 201
Total value of shipments .....	\$1,000.. 270 687 165	Response coverage ratio <sup>3</sup> .....	percent.. 74
Value of resales .....	\$1,000.. 15 706 729	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 1 592 023
Value added .....	\$1,000.. 137 934 706	Response coverage ratio <sup>3</sup> .....	percent.. 74
Total inventories, beginning of year .....	\$1,000.. 43 073 890	Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 1 233 034
Finished goods inventories, beginning of year .....	\$1,000.. 13 537 137	Response coverage ratio <sup>3</sup> .....	percent.. 74
Work-in-process inventories, beginning of year .....	\$1,000.. 15 547 728	Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 762 420
Materials and supplies inventories, beginning of year .....	\$1,000.. 13 989 025	Response coverage ratio <sup>3</sup> .....	percent.. 74
Total inventories, end of year .....	\$1,000.. 44 490 878	Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 264 226
Finished goods inventories, end of year .....	\$1,000.. 14 131 366	Response coverage ratio <sup>3</sup> .....	percent.. 74
Work-in-process inventories, end of year .....	\$1,000.. 15 492 272	Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 1 714 599
Materials and supplies inventories, end of year .....	\$1,000.. 14 867 240	Response coverage ratio <sup>3</sup> .....	percent.. 74
Gross book value of total assets at beginning of year .....	\$1,000.. 77 922 680	Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 1 286 947
Total capital expenditures (new and used) .....	\$1,000.. 8 835 703	Response coverage ratio <sup>3</sup> .....	percent.. 74
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 1 666 492	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 574 614
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 7 169 211	Response coverage ratio <sup>3</sup> .....	percent.. 74
Total retirements .....	\$1,000.. 2 966 154		
Gross book value of total assets at end of year .....	\$1,000.. 83 792 229		
Total depreciation during year .....	\$1,000.. 6 251 064		
Total rental payments .....	\$1,000.. 2 488 402		
Buildings on other structures rental payments .....	\$1,000.. 1 226 583		
Machinery and equipment rental payments .....	\$1,000.. 1 261 819		
Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 497 588		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 1 217 068		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 1 426 837		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 537 486		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased accounting and bookkeeping services services <sup>2</sup> .....	\$1,000.. 334 934		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 1 014 449		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 518 695		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 244 626		
Response coverage ratio <sup>3</sup> .....	percent.. 80		
<b>334, COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>		<b>335, ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG</b>	
—Con.		—Con.	
Companies <sup>1</sup> .....	number.. 15 492	Companies <sup>1</sup> .....	number.. 5 839
All establishments .....	number.. 17 435	All establishments .....	number.. 6 930
Establishments with 1 to 19 employees .....	number.. 9 822	Establishments with 1 to 19 employees .....	number.. 3 618
Establishments with 20 to 99 employees .....	number.. 4 721	Establishments with 20 to 99 employees .....	number.. 1 928
Establishments with 100 employees or more .....	number.. 2 892	Establishments with 100 employees or more .....	number.. 1 384
All employees .....	number.. 1 691 146	All employees .....	number.. 593 802
Total compensation .....	\$1,000.. 89 471 578	Total compensation .....	\$1,000.. 24 252 037
Annual payroll .....	\$1,000.. 72 483 848	Annual payroll .....	\$1,000.. 18 972 741
Total fringe benefits .....	\$1,000.. 16 987 730	Total fringe benefits .....	\$1,000.. 5 279 296
Production workers, average for year .....	number.. 877 002	Production workers, average for year .....	number.. 432 273
Production workers on March 12 .....	number.. 866 497	Production workers on March 12 .....	number.. 430 796
Production workers on May 12 .....	number.. 872 341	Production workers on May 12 .....	number.. 431 126
Production workers on August 12 .....	number.. 881 628	Production workers on August 12 .....	number.. 432 650
Production workers on November 12 .....	number.. 887 542	Production workers on November 12 .....	number.. 434 520
Production-worker hours .....	1,000.. 1 746 314	Production-worker hours .....	1,000.. 860 344
Production-worker wages .....	\$1,000.. 26 117 539	Production-worker wages .....	\$1,000.. 11 368 753
Total cost of materials .....	\$1,000.. 187 875 131	Total cost of materials .....	\$1,000.. 54 987 295
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 161 203 604	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 49 463 514
Cost of resales .....	\$1,000.. 17 932 114	Cost of resales .....	\$1,000.. 3 703 772
Cost of fuels .....	\$1,000.. 412 379	Cost of fuels .....	\$1,000.. 265 132
Cost of purchased electricity .....	\$1,000.. 2 223 687	Cost of purchased electricity .....	\$1,000.. 895 980
Cost of contract work .....	\$1,000.. 6 103 347	Cost of contract work .....	\$1,000.. 658 897
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 16 436 990	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 16 436 990
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 23 595	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 23 595
Total value of shipments .....	\$1,000.. 112 116 267	Total value of shipments .....	\$1,000.. 112 116 267
Value of resales .....	\$1,000.. D	Value of resales .....	\$1,000.. D
Value added .....	\$1,000.. 57 215 610	Value added .....	\$1,000.. 57 215 610
Total inventories, beginning of year .....	\$1,000.. 13 029 124	Total inventories, beginning of year .....	\$1,000.. 13 029 124
Finished goods inventories, beginning of year .....	\$1,000.. 4 778 099	Finished goods inventories, beginning of year .....	\$1,000.. 4 778 099
Work-in-process inventories, beginning of year .....	\$1,000.. 3 445 055	Work-in-process inventories, beginning of year .....	\$1,000.. 3 445 055
Materials and supplies inventories, beginning of year .....	\$1,000.. 4 805 970	Materials and supplies inventories, beginning of year .....	\$1,000.. 4 805 970
Total inventories, end of year .....	\$1,000.. 13 529 479	Total inventories, end of year .....	\$1,000.. 13 529 479
Finished goods inventories, end of year .....	\$1,000.. 4 835 398	Finished goods inventories, end of year .....	\$1,000.. 4 835 398
Work-in-process inventories, end of year .....	\$1,000.. 3 474 394	Work-in-process inventories, end of year .....	\$1,000.. 3 474 394
Materials and supplies inventories, end of year .....	\$1,000.. 5 219 687	Materials and supplies inventories, end of year .....	\$1,000.. 5 219 687
Gross book value of total assets at beginning of year .....	\$1,000.. 32 264 486	Gross book value of total assets at beginning of year .....	\$1,000.. 32 264 486
Total capital expenditures (new and used) .....	\$1,000.. 3 598 750	Total capital expenditures (new and used) .....	\$1,000.. 3 598 750
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 650 198	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 650 198
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 948 552	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 948 552
Total retirements .....	\$1,000.. 1 004 239	Total retirements .....	\$1,000.. 1 004 239

Table 1-3. Detailed Statistics by Subsector: 1997—Con.

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

Item	Value	Item	Value
<b>335, ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG—Con.</b>		<b>336, TRANSPORTATION EQUIPMENT MFG—Con.</b>	
Gross book value of total assets at end of year	\$1,000.. 34 858 997	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 413 322
Total depreciation during year	\$1,000.. 2 627 864	Response coverage ratio <sup>3</sup>	percent.. 82
Total rental payments	\$1,000.. 910 558	<b>337, FURNITURE &amp; RELATED PRODUCT MFG</b>	
Buildings on other structures rental payments	\$1,000.. 412 487	Companies <sup>1</sup>	number.. 19 838
Machinery and equipment rental payments	\$1,000.. 498 071	All establishments	number.. 20 738
Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 165 067	Establishments with 1 to 19 employees	number.. 15 982
Response coverage ratio <sup>3</sup>	percent.. 82	Establishments with 20 to 99 employees	number.. 3 510
Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 624 929	Establishments with 100 employees or more	number.. 1 246
Response coverage ratio <sup>3</sup>	percent.. 82	All employees	number.. 603 668
Cost of purchased communications services <sup>2</sup>	\$1,000.. 216 432	Total compensation	\$1,000.. 18 357 228
Response coverage ratio <sup>3</sup>	percent.. 82	Annual payroll	\$1,000.. 14 986 222
Cost of purchased legal services <sup>2</sup>	\$1,000.. 108 628	Total fringe benefits	\$1,000.. 3 371 006
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers, average for year	number.. 484 600
Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 69 164	Production workers on March 12	number.. 480 928
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on May 12	number.. 482 222
Cost of purchased advertising services <sup>2</sup>	\$1,000.. 374 562	Production workers on August 12	number.. 485 369
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on November 12	number.. 489 881
Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 92 380	Production-worker hours	1,000.. 936 574
Response coverage ratio <sup>3</sup>	percent.. 82	Production-worker wages	\$1,000.. 10 217 032
Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 76 975	Total cost of materials	\$1,000.. 29 462 249
Response coverage ratio <sup>3</sup>	percent.. 82	Cost of materials, parts, containers, etc., consumed	\$1,000.. 26 206 541
<b>336, TRANSPORTATION EQUIPMENT MFG</b>		Cost of resales	\$1,000.. 2 035 309
Companies <sup>1</sup>	number.. 10 979	Cost of fuels	\$1,000.. 176 022
All establishments	number.. 12 887	Cost of purchased electricity	\$1,000.. 489 911
Establishments with 1 to 19 employees	number.. 7 071	Cost of contract work	\$1,000.. 554 466
Establishments with 20 to 99 employees	number.. 3 205	Quantity of electricity purchased for heat and power	1,000 kWh.. 8 410 129
Establishments with 100 employees or more	number.. 2 611	Quantity of electricity generated less sold for heat and power	1,000 kWh.. 6 256
All employees	number.. 1 842 315	Total value of shipments	\$1,000.. 64 299 098
Total compensation	\$1,000.. 104 066 528	Value of resales	\$1,000.. 2 768 887
Annual payroll	\$1,000.. 79 616 518	Value added	\$1,000.. 34 839 134
Total fringe benefits	\$1,000.. 24 450 010	Total inventories, beginning of year	\$1,000.. 7 359 747
Production workers, average for year	number.. 1 340 735	Finished goods inventories, beginning of year	\$1,000.. 2 529 393
Production workers on March 12	number.. 1 326 570	Work-in-process inventories, beginning of year	\$1,000.. 1 522 555
Production workers on May 12	number.. 1 339 681	Materials and supplies inventories, beginning of year	\$1,000.. 3 307 799
Production workers on August 12	number.. 1 335 512	Total inventories, end of year	\$1,000.. 7 526 301
Production workers on November 12	number.. 1 361 177	Finished goods inventories, end of year	\$1,000.. 2 509 282
Production-worker hours	1,000.. 2 734 790	Work-in-process inventories, end of year	\$1,000.. 1 544 951
Production-worker wages	\$1,000.. 51 450 169	Materials and supplies inventories, end of year	\$1,000.. 3 472 068
Total cost of materials	\$1,000.. 348 121 929	Gross book value of total assets at beginning of year	\$1,000.. 16 056 592
Cost of materials, parts, containers, etc., consumed	\$1,000.. 328 011 652	Total capital expenditures (new and used)	\$1,000.. 1 744 608
Cost of resales	\$1,000.. 9 170 554	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 373 001
Cost of fuels	\$1,000.. 986 669	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 371 607
Cost of purchased electricity	\$1,000.. 2 773 661	Total retirements	\$1,000.. 364 350
Cost of contract work	\$1,000.. 7 179 393	Gross book value of total assets at end of year	\$1,000.. 17 436 850
Quantity of electricity purchased for heat and power	1,000 kWh.. 53 193 755	Total depreciation during year	\$1,000.. 1 196 681
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D	Total rental payments	\$1,000.. 926 636
Total value of shipments	\$1,000.. 575 306 996	Buildings on other structures rental payments	\$1,000.. 508 071
Value of resales	\$1,000.. 10 911 078	Machinery and equipment rental payments	\$1,000.. 418 565
Value added	\$1,000.. 227 510 551	Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 99 983
Total inventories, beginning of year	\$1,000.. 65 287 222	Response coverage ratio <sup>3</sup>	percent.. 76
Finished goods inventories, beginning of year	\$1,000.. 8 337 030	Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 287 374
Work-in-process inventories, beginning of year	\$1,000.. 41 299 655	Response coverage ratio <sup>3</sup>	percent.. 76
Materials and supplies inventories, beginning of year	\$1,000.. 15 650 537	Cost of purchased communications services <sup>2</sup>	\$1,000.. 124 385
Total inventories, end of year	\$1,000.. 66 411 837	Response coverage ratio <sup>3</sup>	percent.. 76
Finished goods inventories, end of year	\$1,000.. 9 417 828	Cost of purchased legal services <sup>2</sup>	\$1,000.. 57 085
Work-in-process inventories, end of year	\$1,000.. 40 382 181	Response coverage ratio <sup>3</sup>	percent.. 76
Materials and supplies inventories, end of year	\$1,000.. 16 611 828	Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 50 634
Gross book value of total assets at beginning of year	\$1,000.. 161 502 918	Response coverage ratio <sup>3</sup>	percent.. 76
Total capital expenditures (new and used)	\$1,000.. 19 251 148	Cost of purchased advertising services <sup>2</sup>	\$1,000.. 415 791
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 2 662 948	Response coverage ratio <sup>3</sup>	percent.. 76
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 16 588 200	Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 83 156
Total retirements	\$1,000.. 8 368 153	Response coverage ratio <sup>3</sup>	percent.. 76
Gross book value of total assets at end of year	\$1,000.. 172 385 913	Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup>	\$1,000.. 68 784
Total depreciation during year	\$1,000.. 11 016 170	Response coverage ratio <sup>3</sup>	percent.. 76
Total rental payments	\$1,000.. 2 132 324	<b>339, MISCELLANEOUS MFG</b>	
Buildings on other structures rental payments	\$1,000.. 936 950	Companies <sup>1</sup>	number.. 30 335
Machinery and equipment rental payments	\$1,000.. 1 195 374	All establishments	number.. 31 476
Cost of purchased services for the repair of buildings and other structures <sup>2</sup>	\$1,000.. 604 818	Establishments with 1 to 19 employees	number.. 25 601
Response coverage ratio <sup>3</sup>	percent.. 82	Establishments with 20 to 99 employees	number.. 4 458
Cost of purchased services for the repair of machinery and equipment <sup>2</sup>	\$1,000.. 2 033 349	Establishments with 100 employees or more	number.. 1 417
Response coverage ratio <sup>3</sup>	percent.. 82	All employees	number.. 725 396
Cost of purchased communications services <sup>2</sup>	\$1,000.. 1 629 884	Total compensation	\$1,000.. 26 552 124
Response coverage ratio <sup>3</sup>	percent.. 82	Annual payroll	\$1,000.. 21 618 204
Cost of purchased legal services <sup>2</sup>	\$1,000.. 276 597	Total fringe benefits	\$1,000.. 4 933 920
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers, average for year	number.. 492 558
Cost of purchased accounting and bookkeeping services services <sup>2</sup>	\$1,000.. 238 082	Production workers on March 12	number.. 489 187
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on May 12	number.. 492 939
Cost of purchased advertising services <sup>2</sup>	\$1,000.. 543 669	Production workers on August 12	number.. 492 752
Response coverage ratio <sup>3</sup>	percent.. 82	Production workers on November 12	number.. 495 354
Cost of purchased software and other data processing services <sup>2</sup>	\$1,000.. 1 327 679	Production-worker hours	1,000.. 938 191
Response coverage ratio <sup>3</sup>	percent.. 82	Production-worker wages	\$1,000.. 10 970 663

**Table 1-3. Detailed Statistics by Subsector: 1997—Con.**

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

Item	Value	Item	Value
<b>339, MISCELLANEOUS MFG—Con.</b>			
Total cost of materials .....	\$1,000.. 38 263 345	Gross book value of total assets at beginning of year—Con.	
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 31 291 907	Total capital expenditures (new and used)—Con.	
Cost of resales .....	\$1,000.. 4 549 624	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 800 111
Cost of fuels .....	\$1,000.. 188 349	Total retirements .....	\$1,000.. 1 045 556
Cost of purchased electricity .....	\$1,000.. 634 534	Gross book value of total assets at end of year .....	\$1,000.. 28 490 101
Cost of contract work .....	\$1,000.. 1 598 931	Total depreciation during year .....	\$1,000.. 2 419 344
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 10 121 006	Total rental payments .....	\$1,000.. 1 230 571
Quantity of electricity generated less sold for heat and power ...	1,000 kWh.. 1 154	Buildings on other structures rental payments .....	\$1,000.. 702 923
Total value of shipments .....	\$1,000.. 99 729 798	Machinery and equipment rental payments .....	\$1,000.. 527 625
Value of resales .....	\$1,000.. 7 283 594	Cost of purchased services for the repair of buildings and other structures <sup>2</sup> .....	\$1,000.. 259 647
Value added .....	\$1,000.. 61 452 548	Response coverage ratio <sup>3</sup> .....	percent.. 70
Total inventories, beginning of year .....	\$1,000.. 15 263 747	Cost of purchased services for the repair of machinery and equipment <sup>2</sup> .....	\$1,000.. 423 632
Finished goods inventories, beginning of year .....	\$1,000.. 7 039 358	Response coverage ratio <sup>3</sup> .....	percent.. 70
Work-in-process inventories, beginning of year .....	\$1,000.. 2 974 373	Cost of purchased communications services <sup>2</sup> .....	\$1,000.. 362 346
Materials and supplies inventories, beginning of year .....	\$1,000.. 5 250 016	Response coverage ratio <sup>3</sup> .....	percent.. 70
Total inventories, end of year .....	\$1,000.. 15 538 943	Cost of purchased legal services <sup>2</sup> .....	\$1,000.. 257 756
Finished goods inventories, end of year .....	\$1,000.. 7 161 009	Response coverage ratio <sup>3</sup> .....	percent.. 70
Work-in-process inventories, end of year .....	\$1,000.. 2 838 817	Cost of purchased accounting and bookkeeping services <sup>2</sup> .....	\$1,000.. 160 937
Materials and supplies inventories, end of year .....	\$1,000.. 5 539 117	Response coverage ratio <sup>3</sup> .....	percent.. 70
Gross book value of total assets at beginning of year .....	\$1,000.. 26 103 008	Cost of purchased advertising services <sup>2</sup> .....	\$1,000.. 849 184
Total capital expenditures (new and used) .....	\$1,000.. 3 432 599	Response coverage ratio <sup>3</sup> .....	percent.. 70
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 632 488	Cost of purchased software and other data processing services <sup>2</sup> .....	\$1,000.. 136 723
		Response coverage ratio <sup>3</sup> .....	percent.. 70
		Cost of purchased refuse removal (including hazardous waste) services <sup>2</sup> .....	\$1,000.. 85 530
		Response coverage ratio <sup>3</sup> .....	percent.. 70

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

<sup>2</sup>Based on ASM sample data.

<sup>3</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies. Amounts purchased by central administrative offices and services provided to establishments by central administrative offices are excluded.

**Table 1-4. Industry Statistics for Subsectors by Employment Size: 1997**

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

Employment size class	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>31-33, MANUFACTURING</b>												
<b>All establishments .....</b>	<b>-</b>	<b>362 829</b>	<b>119 748</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
Establishments with—												
1 to 4 employees .....	7	124 115	—	254 907	5 886 466	202 171	313 657	3 773 644	14 833 331	13 733 361	28 694 928	1 279 123
5 to 9 employees .....	5	62 485	—	419 775	10 547 772	309 537	513 980	6 679 532	25 751 108	23 043 237	48 929 325	1 882 284
10 to 19 employees .....	3	56 481	—	775 689	21 194 723	562 184	1 004 175	12 904 980	51 712 811	47 685 966	99 481 490	3 835 121
20 to 49 employees .....	2	56 776	56 776	1 775 090	52 045 581	1 284 142	2 455 979	30 455 313	130 520 423	132 342 423	262 662 943	9 318 962
50 to 99 employees .....	1	28 050	28 050	1 967 207	59 794 213	1 429 295	2 855 189	35 091 102	160 675 838	179 221 348	339 203 549	12 281 294
100 to 249 employees .....	—	22 286	22 286	3 435 055	107 512 440	2 516 415	5 138 163	64 847 378	322 540 300	373 021 885	693 947 102	27 122 426
250 to 499 employees .....	—	7 854	7 854	2 716 694	87 227 360	2 007 449	4 146 196	54 070 500	290 254 397	333 576 866	622 554 684	25 163 185
500 to 999 employees .....	—	3 279	3 279	2 226 558	76 871 408	1 634 450	3 371 434	47 479 612	279 657 263	297 397 361	575 402 452	24 162 281
1,000 to 2,499 employees .....	—	1 187	1 187	1 718 853	69 757 190	1 218 350	2 531 906	41 930 320	264 479 110	284 605 885	548 338 172	25 493 020
2,500 employees or more .....	—	316	316	1 515 299	78 971 692	901 264	1 852 592	41 034 816	285 263 446	330 796 224	615 486 275	20 973 061
Administrative records <sup>2</sup> .....	9	136 097	—	584 992	12 430 090	440 852	643 108	7 824 690	29 929 008	29 091 672	59 286 125	2 401 548
<b>311, FOOD MFG</b>												
<b>All establishments .....</b>	<b>1</b>	<b>26 302</b>	<b>8 726</b>	<b>1 466 956</b>	<b>38 366 240</b>	<b>1 112 307</b>	<b>2 234 216</b>	<b>25 185 751</b>	<b>163 675 301</b>	<b>258 537 984</b>	<b>421 737 017</b>	<b>10 799 165</b>
Establishments with—												
1 to 4 employees .....	7	9 671	—	18 849	328 089	14 655	19 780	203 418	1 111 905	1 539 104	2 670 534	69 826
5 to 9 employees .....	6	4 125	—	27 758	474 290	19 308	27 068	285 881	1 668 127	2 705 715	4 374 873	109 288
10 to 19 employees .....	3	3 780	—	51 964	1 004 715	35 263	55 320	594 405	3 494 480	6 597 909	10 097 401	235 269
20 to 49 employees .....	1	3 567	3 567	111 590	2 687 044	77 207	141 286	1 578 522	10 270 334	24 330 277	34 644 598	739 481
50 to 99 employees .....	1	1 942	1 942	137 163	3 710 660	98 233	197 669	2 267 796	15 249 553	31 368 585	46 591 889	1 191 765
100 to 249 employees .....	1	1 864	1 864	291 869	8 300 864	215 124	440 859	5 188 758	38 387 425	60 074 675	98 312 948	2 736 582
250 to 499 employees .....	—	780	780	276 396	7 871 913	207 269	431 906	5 130 593	35 048 589	48 974 271	83 843 890	2 397 277
500 to 999 employees .....	—	397	397	271 402	7 387 866	211 129	432 245	4 964 166	34 626 886	33 571 853	68 292 519	1 828 490
1,000 to 2,499 employees .....	—	159	159	225 392	5 280 284	189 744	397 317	4 020 625	20 830 173	36 021 631	56 769 966	1 247 851
2,500 employees or more .....	—	17	17	54 573	1 320 515	44 375	90 766	951 587	2 987 829	13 173 964	16 138 399	243 336
Administrative records <sup>2</sup> .....	9	10 138	—	51 869	805 579	38 379	50 023	515 308	2 713 125	4 290 773	7 028 739	184 330

**Table 1-4. Industry Statistics for Subsectors by Employment Size: 1997—Con.**

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

Employment size class	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>312, BEVERAGE &amp; TOBACCO PRODUCT MFG</b>												
All establishments .....	1	2 727	1 029	175 711	6 735 295	98 389	196 693	3 554 784	56 433 891	41 276 110	96 971 368	3 100 543
Establishments with—												
1 to 4 employees .....	8	964	—	1 833	42 300	1 345	2 074	25 008	188 412	178 590	359 833	13 238
5 to 9 employees .....	6	379	—	D	D	D	D	D	D	D	D	D
10 to 19 employees .....	5	355	—	4 857	119 510	2 716	4 905	59 908	525 469	489 730	992 511	56 606
20 to 49 employees .....	2	404	404	12 850	348 355	6 774	11 864	156 195	1 430 016	1 588 836	3 001 040	152 444
50 to 99 employees .....	1	226	226	D	D	D	D	D	D	D	D	D
100 to 249 employees .....	1	226	226	D	D	D	D	D	D	D	D	D
250 to 499 employees .....	—	118	118	41 039	1 448 763	20 233	45 149	653 092	8 273 804	9 474 633	17 675 275	456 530
500 to 999 employees .....	—	40	40	25 268	1 039 423	13 547	28 386	569 249	5 764 721	5 690 521	11 379 095	482 858
1,000 to 2,499 employees .....	—	11	11	18 130	974 860	14 487	26 340	731 200	17 686 094	5 137 684	22 824 124	772 505
2,500 employees or more .....	—	4	4	17 311	1 047 233	9 688	18 975	520 036	11 105 418	3 866 945	14 944 890	406 964
Administrative records <sup>2</sup> .....	9	1 196	—	6 001	112 554	3 899	5 110	67 541	554 564	609 591	1 154 215	39 536
<b>313, TEXTILE MILLS</b>												
All establishments .....	1	4 694	2 136	391 899	10 058 482	332 385	695 900	7 439 112	23 696 948	34 876 899	58 707 401	2 691 704
Establishments with—												
1 to 4 employees .....	7	1 305	—	2 686	61 490	2 344	4 137	41 535	147 253	167 064	314 711	13 071
5 to 9 employees .....	6	681	—	D	D	D	D	D	D	D	D	D
10 to 19 employees .....	4	572	—	7 859	203 348	6 109	11 625	124 792	553 125	709 239	1 271 629	36 614
20 to 49 employees .....	2	620	620	19 413	514 552	15 159	29 972	320 838	1 411 458	1 681 580	3 103 427	111 283
50 to 99 employees .....	2	450	450	32 348	860 588	26 312	54 558	575 143	2 038 386	2 677 249	4 708 712	172 026
100 to 249 employees .....	1	625	625	D	D	D	D	D	D	D	D	D
250 to 499 employees .....	1	296	296	102 966	2 584 187	89 654	189 179	2 005 729	6 113 854	8 991 607	15 140 419	675 720
500 to 999 employees .....	—	114	114	75 682	1 903 630	65 366	135 027	1 490 296	4 156 692	6 661 825	10 824 718	455 541
1,000 to 2,499 employees .....	—	29	29	37 933	1 001 045	32 472	71 723	759 233	2 185 512	3 954 273	6 155 491	406 037
2,500 employees or more .....	4	2	2	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup> .....	9	1 779	—	10 172	205 724	8 671	15 226	148 535	454 420	518 341	971 559	47 458
<b>314, TEXTILE PRODUCT MILLS</b>												
All establishments .....	1	7 899	1 900	235 441	5 088 653	189 082	366 775	3 410 873	13 613 111	17 671 553	31 051 835	718 728
Establishments with—												
1 to 4 employees .....	7	3 519	—	D	D	D	D	D	D	D	D	D
5 to 9 employees .....	5	1 412	—	9 392	174 078	7 306	12 026	108 133	351 978	356 113	710 751	18 075
10 to 19 employees .....	4	1 068	—	D	D	D	D	D	D	D	D	D
20 to 49 employees .....	2	975	975	D	D	D	D	D	D	D	D	D
50 to 99 employees .....	1	421	421	29 713	605 730	23 599	43 605	379 290	1 363 885	1 595 067	2 927 848	75 438
100 to 249 employees .....	1	316	316	D	D	D	D	D	D	D	D	D
250 to 499 employees .....	—	118	118	41 744	942 645	35 111	73 787	690 340	2 911 235	4 096 037	6 989 565	155 511
500 to 999 employees .....	—	57	57	38 143	960 303	30 904	66 470	636 323	2 900 485	4 415 850	7 261 317	143 747
1,000 to 2,499 employees .....	1	12	12	15 133	361 735	11 313	23 560	276 635	1 245 686	1 650 025	2 867 208	55 287
2,500 employees or more .....	—	1	1	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup> .....	9	3 130	—	11 868	175 965	9 819	14 526	113 264	378 735	439 626	817 959	23 532
<b>315, APPAREL MFG</b>												
All establishments .....	1	16 989	6 354	710 796	12 582 352	592 290	1 060 314	8 799 442	33 780 193	34 683 500	68 018 116	941 178
Establishments with—												
1 to 4 employees .....	7	5 202	—	D	D	D	D	D	D	D	D	D
5 to 9 employees .....	5	2 694	—	18 056	277 795	15 528	25 202	204 155	694 648	608 722	1 293 078	21 686
10 to 19 employees .....	4	2 739	—	D	D	D	D	D	D	D	D	D
20 to 49 employees .....	3	3 194	3 194	100 217	1 548 238	84 963	140 940	1 084 237	3 547 046	3 258 330	6 780 940	94 302
50 to 99 employees .....	2	1 495	1 495	D	D	D	D	D	D	D	D	D
100 to 249 employees .....	2	1 123	1 123	174 613	3 064 403	145 847	268 000	2 164 091	7 510 512	8 370 883	15 721 795	203 943
250 to 499 employees .....	1	370	370	127 722	2 350 425	105 008	197 832	1 642 722	6 653 554	7 159 090	13 779 231	183 403
500 to 999 employees .....	—	141	141	93 037	1 759 215	77 836	146 990	1 285 775	6 047 405	6 184 347	12 143 706	136 931
1,000 to 2,499 employees .....	—	28	28	37 155	835 735	29 375	54 580	566 137	2 593 722	2 329 473	4 836 670	122 907
2,500 employees or more .....	—	3	3	8 170	236 945	5 940	11 100	137 260	936 431	669 438	1 584 492	8 565
Administrative records <sup>2</sup> .....	9	5 042	—	29 081	357 950	26 054	40 465	283 701	709 455	494 927	1 203 657	29 513
<b>316, LEATHER &amp; ALLIED PRODUCT MFG</b>												
All establishments .....	—	1 861	597	85 115	1 832 341	68 733	133 908	1 185 870	5 407 999	5 480 529	10 876 510	167 254
Establishments with—												
1 to 4 employees .....	8	746	—	1 457	25 728	1 202	2 044	17 584	65 111	73 143	139 998	2 443
5 to 9 employees .....	7	281	—	1 836	33 250	1 423	2 509	22 504	76 380	87 247	163 567	3 375
10 to 19 employees .....	4	237	—	3 260	61 843	2 486	4 564	40 004	137 193	156 387	293 663	6 913
20 to 49 employees .....	2	228	228	D	D	D	D	D	D	D	D	D
50 to 99 employees .....	1	155	155	D	D	D	D	D	D	D	D	D
100 to 249 employees .....	—	140	140	22 834	473 129	18 747	36 233	308 820	1 276 901	1 269 636	2 551 807	50 022
250 to 499 employees .....	—	50	50	17 914	390 566	14 561	28 262	262 986	1 343 135	1 323 714	2 677 559	43 275
500 to 999 employees .....	—	19	19	12 366	298 938	10 211	21 881	208 042	773 500	986 411	1 738 824	25 003
1,000 to 2,499 employees .....	—	5	5	7 051	184 314	5 594	10 964	88 922	735 616	457 058	1 171 178	10 898
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>2</sup> .....	9	846	—	3 610	62 998	2 809	4 899	43 926	146 341	189 889	336 500	6 593

**Table 1-4. Industry Statistics for Subsectors by Employment Size: 1997—Con.**

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

Employment size class	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E <sup>1</sup>	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>321, WOOD PRODUCT MFG</b>												
<b>All establishments</b>	<b>1</b>	<b>17 367</b>	<b>5 809</b>	<b>570 034</b>	<b>14 319 193</b>	<b>476 225</b>	<b>948 438</b>	<b>10 567 993</b>	<b>33 493 004</b>	<b>55 299 641</b>	<b>88 470 180</b>	<b>2 869 234</b>
Establishments with—												
1 to 4 employees	7	5 450	—	11 157	204 348	9 855	15 031	164 977	510 097	782 284	1 299 747	101 530
5 to 9 employees	4	2 980	—	20 313	396 675	16 563	27 493	300 167	912 745	1 296 634	2 214 557	72 885
10 to 19 employees	2	3 128	—	D	D	D	D	D	D	D	D	D
20 to 49 employees	1	3 003	3 003	92 977	2 114 290	75 542	143 101	1 453 788	4 823 817	8 065 506	12 843 495	387 543
50 to 99 employees	1	1 433	1 433	99 968	2 425 247	82 983	169 680	1 729 167	5 930 847	10 243 642	16 084 365	519 569
100 to 249 employees	—	1 048	1 048	D	D	D	D	D	D	D	D	D
250 to 499 employees	—	267	267	90 787	2 460 405	77 954	162 036	1 913 733	5 605 170	9 472 663	14 997 662	397 597
500 to 999 employees	—	47	47	30 131	810 553	25 364	49 665	599 226	2 633 954	2 633 954	4 415 031	124 448
1,000 to 2,499 employees	—	7	7	8 777	256 406	7 565	16 579	209 197	584 332	759 062	1 353 475	26 430
2,500 employees or more	—	4	4	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup>	9	5 627	—	21 232	355 583	18 151	26 593	272 573	797 647	1 133 275	1 935 399	67 792
<b>322, PAPER MFG</b>												
<b>All establishments</b>	<b>—</b>	<b>5 868</b>	<b>3 975</b>	<b>574 274</b>	<b>22 311 971</b>	<b>440 096</b>	<b>935 795</b>	<b>15 187 973</b>	<b>70 300 235</b>	<b>80 189 518</b>	<b>150 295 890</b>	<b>8 595 133</b>
Establishments with—												
1 to 4 employees	8	687	—	D	D	D	D	D	D	D	D	D
5 to 9 employees	7	500	—	3 455	93 689	2 604	4 597	62 034	246 506	356 074	605 207	22 269
10 to 19 employees	5	706	—	10 043	286 022	7 440	13 576	174 270	708 702	953 438	1 672 662	54 378
20 to 49 employees	1	1 292	1 292	42 498	1 270 374	31 355	61 186	744 077	3 230 184	4 124 112	7 345 416	289 300
50 to 99 employees	—	1 033	1 033	73 835	2 412 233	55 493	116 083	1 514 369	6 337 762	8 339 051	14 686 755	598 576
100 to 249 employees	—	1 193	1 193	178 589	6 369 345	136 078	293 396	4 202 622	16 993 823	23 459 423	40 366 010	1 920 334
250 to 499 employees	—	265	265	89 131	3 463 886	68 356	145 274	2 400 491	11 179 559	12 801 424	23 940 239	1 419 278
500 to 999 employees	—	131	131	91 093	4 109 557	71 112	154 964	2 945 656	15 683 288	16 409 746	32 060 659	1 742 097
1,000 to 2,499 employees	—	59	59	78 015	3 903 333	61 779	135 379	2 913 640	14 032 292	12 759 428	26 780 579	2 374 950
2,500 employees or more	—	2	2	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup>	9	1 238	—	9 801	231 049	7 458	11 594	157 386	606 166	947 577	1 558 730	51 319
<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>												
<b>All establishments</b>	<b>2</b>	<b>42 863</b>	<b>8 209</b>	<b>834 404</b>	<b>26 022 991</b>	<b>607 637</b>	<b>1 164 310</b>	<b>16 336 416</b>	<b>58 392 618</b>	<b>39 219 976</b>	<b>97 485 138</b>	<b>5 052 110</b>
Establishments with—												
1 to 4 employees	7	18 757	—	41 039	870 539	30 637	43 668	559 284	1 878 932	1 188 120	3 064 857	178 650
5 to 9 employees	3	9 693	—	63 861	1 504 309	46 239	72 628	962 090	3 146 558	1 881 804	5 026 889	222 871
10 to 19 employees	2	6 204	—	83 445	2 320 760	58 490	104 798	1 436 569	4 742 868	2 833 608	7 570 552	360 826
20 to 49 employees	2	4 740	4 740	145 267	4 576 171	102 769	195 688	2 692 436	9 381 605	5 653 417	15 045 619	740 419
50 to 99 employees	1	1 937	1 937	134 460	4 505 616	97 101	193 858	2 713 885	9 637 095	6 340 056	15 948 259	787 151
100 to 249 employees	1	1 115	1 115	165 974	5 758 062	120 021	242 250	3 547 695	13 574 994	9 632 194	23 189 968	1 114 191
250 to 499 employees	2	297	297	102 566	3 324 212	75 993	155 915	2 155 330	7 979 908	6 008 145	13 950 346	659 829
500 to 999 employees	2	96	96	64 872	2 165 933	50 225	101 998	1 519 111	5 566 592	3 892 541	9 432 251	807 153
1,000 to 2,499 employees	—	24	24	32 920	997 389	26 162	53 507	750 016	2 484 966	1 790 091	4 256 397	181 020
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>2</sup>	9	17 115	—	54 374	1 011 585	40 366	52 203	657 867	2 156 585	1 427 179	3 580 528	163 561
<b>324, PETROLEUM &amp; COAL PRODUCTS MFG</b>												
<b>All establishments</b>	<b>1</b>	<b>2 146</b>	<b>675</b>	<b>107 625</b>	<b>5 546 082</b>	<b>71 554</b>	<b>161 036</b>	<b>3 421 272</b>	<b>37 610 773</b>	<b>139 509 979</b>	<b>177 393 098</b>	<b>4 755 162</b>
Establishments with—												
1 to 4 employees	3	700	—	1 696	67 774	1 387	2 824	50 918	389 987	912 998	1 304 100	29 323
5 to 9 employees	3	454	—	2 937	116 275	2 146	4 244	77 108	571 720	1 282 139	1 864 177	47 168
10 to 19 employees	3	317	—	4 254	170 447	2 889	5 839	104 263	702 065	1 532 904	2 241 773	54 948
20 to 49 employees	2	308	308	9 722	376 251	6 370	13 080	212 456	2 869 189	3 886 695	6 824 157	150 084
50 to 99 employees	2	143	143	10 239	422 887	6 694	14 449	247 536	2 051 941	4 687 179	6 742 074	188 943
100 to 249 employees	1	132	132	21 001	966 210	14 279	32 393	598 919	5 476 286	17 780 876	23 335 359	486 170
250 to 499 employees	1	45	45	16 172	867 983	10 343	23 349	527 781	6 987 883	33 280 068	40 268 827	1 007 730
500 to 999 employees	—	31	31	20 951	1 261 796	13 830	32 236	774 958	7 531 224	37 081 797	44 408 309	1 381 085
1,000 to 2,499 employees	—	16	16	20 653	1 296 459	13 616	32 622	827 333	11 030 478	39 065 323	50 404 322	1 409 711
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>2</sup>	9	379	—	1 958	57 482	1 374	2 091	35 669	239 736	607 389	849 095	18 119
<b>325, CHEMICAL MFG</b>												
<b>All establishments</b>	<b>—</b>	<b>13 474</b>	<b>5 729</b>	<b>882 645</b>	<b>39 835 717</b>	<b>512 152</b>	<b>1 068 966</b>	<b>19 192 170</b>	<b>224 684 500</b>	<b>192 199 632</b>	<b>415 616 508</b>	<b>21 659 251</b>
Establishments with—												
1 to 4 employees	5	3 600	—	D	D	D	D	D	D	D	D	D
5 to 9 employees	4	1 992	—	D	D	D	D	D	D	D	D	D
10 to 19 employees	3	2 153	—	29 720	1 024 050	17 710	32 598	502 159	5 057 158	4 944 563	9 996 228	465 530
20 to 49 employees	2	2 566	2 566	81 132	2 965 033	47 372	93 361	1 400 820	12 963 048	13 822 781	26 775 767	1 115 532
50 to 99 employees	1	1 387	1 387	97 313	3 843 118	57 712	119 410	1 884 237	19 579 147	20 885 880	40 405 035	1 709 898
100 to 249 employees	—	1 087	1 087	167 156	7 058 788	100 250	210 689	3 639 504	38 727 137	41 858 043	80 268 484	4 253 623
250 to 499 employees	—	402	402	139 541	6 118 345	86 438	180 984	3 247 405	41 190 879	35 069 276	76 245 530	4 011 075
500 to 999 employees	—	186	186	126 917	6 115 580	79 192	174 607	3 264 800	47 888 182	36 054 474	83 254 290	4 781 612
1,000 to 2,499 employees	—	86	86	129 198	6 522 089	75 870	160 074	3 186 865	29 963 850	25 507 617	55 633 064	3 050 310
2,500 employees or more	—	15	15	90 766	5 505 233	33 954	73 400	1 695 996	25 626 534	10 503 616	35 765 084	1 892 063
Administrative records <sup>2</sup>	9	4 404	—	23 586	641 521	15 158	22 803	356 347	2 521 796	2 620 874	5 161 706	256 004

**Table 1-4. Industry Statistics for Subsectors by Employment Size: 1997—Con.**

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

Employment size class	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>326. PLASTICS &amp; RUBBER PRODUCTS MFG</b>												
All establishments .....	1	16 821	8 642	1 023 060	29 804 904	805 689	1 607 820	19 828 676	81 349 082	77 994 466	159 161 346	7 836 663
Establishments with—												
1 to 4 employees .....	8	3 420	—	7 171	187 165	5 920	9 900	129 739	444 154	446 911	897 791	58 548
5 to 9 employees .....	6	2 119	—	14 518	371 784	11 305	19 596	247 308	956 621	939 620	1 897 852	90 635
10 to 19 employees .....	4	2 640	—	36 768	969 784	28 060	50 251	612 890	2 442 070	2 301 892	4 743 565	218 634
20 to 49 employees .....	2	3 620	3 620	116 516	3 108 609	88 893	168 885	1 889 451	8 038 299	7 782 227	15 781 418	714 723
50 to 99 employees .....	1	2 297	2 297	162 843	4 451 228	126 638	248 232	2 792 350	11 697 536	12 671 569	24 310 327	1 183 116
100 to 249 employees .....	1	1 929	1 929	295 937	8 177 461	234 254	473 592	5 411 369	22 148 978	22 216 399	44 310 037	2 153 282
250 to 499 employees .....	—	582	582	197 112	5 675 878	156 601	318 319	3 841 277	16 025 002	14 953 671	30 927 582	1 530 080
500 to 999 employees .....	—	160	160	107 827	3 346 836	84 374	179 653	2 268 864	10 222 363	8 292 306	18 542 208	1 129 171
1,000 to 2,499 employees .....	—	51	51	75 390	3 031 688	63 085	125 797	2 357 635	8 029 266	7 525 776	15 558 685	693 489
2,500 employees or more .....	—	3	3	8 978	484 471	6 559	13 595	277 793	1 344 793	864 095	2 191 881	64 985
Administrative records <sup>2</sup> .....	9	4 783	—	28 675	622 263	23 020	35 333	431 379	1 580 801	1 681 779	3 271 486	161 711
<b>327. NONMETALLIC MINERAL PRODUCT MFG</b>												
All establishments .....	1	16 310	5 287	501 471	16 172 049	388 898	797 684	11 319 464	49 425 491	37 072 480	86 464 708	4 798 921
Establishments with—												
1 to 4 employees .....	5	5 005	—	10 156	247 838	8 526	14 305	184 567	900 497	913 605	1 821 666	74 745
5 to 9 employees .....	4	2 897	—	19 835	518 242	15 465	27 675	373 211	1 540 880	1 523 212	3 074 148	133 980
10 to 19 employees .....	2	3 121	—	43 069	1 218 871	32 492	63 080	840 580	3 442 812	3 429 541	6 871 778	371 139
20 to 49 employees .....	1	3 127	3 127	D	D	D	D	D	D	D	D	D
50 to 99 employees .....	1	1 155	1 155	D	D	D	D	D	D	D	D	D
100 to 249 employees .....	—	701	701	106 797	3 537 163	82 854	175 782	2 449 406	11 792 481	8 236 111	20 048 749	1 192 328
250 to 499 employees .....	—	215	215	72 572	2 541 831	59 349	125 376	1 929 644	7 725 884	5 223 456	12 937 437	796 587
500 to 999 employees .....	—	70	70	46 359	1 594 041	38 200	78 313	1 207 072	5 603 190	2 861 340	8 511 388	399 751
1,000 to 2,499 employees .....	—	18	18	24 443	1 007 302	20 042	43 602	748 501	3 342 069	1 362 078	4 663 628	546 004
2,500 employees or more .....	—	1	1	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup> .....	9	5 011	—	19 539	428 838	15 820	23 988	313 165	1 128 965	991 957	2 130 323	107 223
<b>331. PRIMARY METAL MFG</b>												
All establishments .....	—	5 059	3 077	605 085	23 811 233	479 552	1 024 675	17 354 552	68 749 487	99 343 265	168 117 728	6 515 752
Establishments with—												
1 to 4 employees .....	8	859	—	1 768	48 368	1 452	2 506	33 853	121 235	151 704	272 863	12 501
5 to 9 employees .....	6	502	—	D	D	D	D	D	D	D	D	D
10 to 19 employees .....	2	621	—	D	D	D	D	D	D	D	D	D
20 to 49 employees .....	1	979	979	31 611	967 444	24 728	49 080	639 869	2 593 936	3 622 666	6 199 587	229 689
50 to 99 employees .....	—	720	720	51 311	1 630 473	40 165	83 119	1 090 130	4 361 971	6 746 470	11 084 932	346 274
100 to 249 employees .....	—	797	797	127 314	4 318 656	99 117	210 795	2 969 117	12 070 760	18 218 948	30 211 139	1 006 316
250 to 499 employees .....	—	363	363	125 566	4 538 210	100 143	216 966	3 311 693	13 685 813	21 404 604	35 126 780	1 424 785
500 to 999 employees .....	—	145	145	97 012	4 030 252	77 530	167 448	2 985 349	10 957 301	18 742 255	29 829 834	1 073 842
1,000 to 2,499 employees .....	—	55	55	81 481	3 735 024	65 780	142 583	2 843 859	10 611 865	14 651 804	25 247 219	996 639
2,500 employees or more .....	—	18	18	77 021	4 193 993	61 278	135 036	3 247 532	13 474 539	14 669 777	28 107 607	1 353 118
Administrative records <sup>2</sup> .....	8	1 318	—	7 593	191 921	6 104	9 659	136 818	451 202	564 748	1 018 495	46 972
<b>332. FABRICATED METAL PRODUCT MFG</b>												
All establishments .....	—	62 384	19 021	1 763 772	56 631 583	1 327 053	2 674 948	36 251 771	133 493 077	110 067 843	242 813 453	9 368 661
Establishments with—												
1 to 4 employees .....	8	20 123	—	42 338	1 052 634	34 275	55 790	703 081	2 121 446	1 394 504	3 518 141	166 210
5 to 9 employees .....	4	11 797	—	D	D	D	D	D	D	D	D	D
10 to 19 employees .....	2	11 443	—	157 220	4 761 472	117 795	218 769	3 032 324	9 796 000	6 137 760	15 940 314	699 108
20 to 49 employees .....	1	10 943	10 943	339 791	10 869 560	255 888	511 955	6 813 421	23 264 087	16 205 444	39 353 461	1 623 277
50 to 99 employees .....	—	4 460	4 460	309 589	9 996 713	233 888	481 279	6 300 711	22 329 247	19 209 788	41 405 099	1 605 784
100 to 249 employees .....	—	2 693	2 693	405 752	13 380 751	304 744	638 808	8 614 572	32 858 211	33 516 536	66 157 937	2 386 650
250 to 499 employees .....	—	672	672	225 594	7 357 708	169 699	355 667	4 821 102	19 817 989	17 554 072	37 223 920	1 346 587
500 to 999 employees .....	—	207	207	140 982	4 664 130	105 867	219 715	3 026 469	12 128 886	9 256 834	21 319 112	728 814
1,000 to 2,499 employees .....	—	45	45	59 220	2 163 353	43 334	87 439	1 390 429	6 342 143	4 003 630	10 267 383	481 668
2,500 employees or more .....	—	1	1	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup> .....	9	21 639	—	83 050	1 883 640	64 822	93 588	1 251 189	3 789 938	2 802 855	6 604 476	277 250
<b>333. MACHINERY MFG</b>												
All establishments .....	—	30 599	11 210	1 420 512	53 012 226	936 047	1 895 580	29 106 922	137 934 706	133 291 232	270 687 165	8 835 703
Establishments with—												
1 to 4 employees .....	8	8 835	—	18 417	560 183	13 680	23 467	339 374	1 174 436	846 363	2 039 172	88 081
5 to 9 employees .....	5	5 251	—	35 689	1 138 860	24 817	42 766	691 747	2 345 285	1 662 248	4 022 500	158 576
10 to 19 employees .....	3	5 303	—	D	D	D	D	D	D	D	D	D
20 to 49 employees .....	1	5 567	5 567	D	D	D	D	D	D	D	D	D
50 to 99 employees .....	1	2 617	2 617	183 935	6 754 100	121 067	251 053	3 668 201	14 811 816	12 636 708	27 293 635	962 687
100 to 249 employees .....	—	1 965	1 965	300 327	10 998 947	193 351	400 484	5 808 138	26 092 146	24 592 959	50 660 145	1 730 235
250 to 499 employees .....	—	642	642	221 412	8 200 556	141 827	296 910	4 376 776	21 278 210	20 588 644	41 616 120	1 299 738
500 to 999 employees .....	—	303	303	208 559	8 031 130	140 851	286 700	4 523 406	23 162 952	25 082 294	48 116 142	1 437 661
1,000 to 2,499 employees .....	—	94	94	132 048	5 264 823	84 547	169 955	2 823 699	16 889 401	19 421 650	36 307 834	1 368 308
2,500 employees or more .....	—	22	22	72 900	3 258 093	48 219	93 663	1 874 495	13 495 292	14 696 500	28 273 932	648 560
Administrative records <sup>2</sup> .....	9	10 941	—	48 336	1 276 494	33 408	49 965	754 729	2 748 492	2 270 840	5 059 310	196 312

**Table 1-4. Industry Statistics for Subsectors by Employment Size: 1997—Con.**

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

Employment size class	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>334. COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>												
<b>All establishments</b> .....	-	<b>17 435</b>	<b>7 613</b>	<b>1 691 146</b>	<b>72 483 848</b>	<b>877 002</b>	<b>1 746 314</b>	<b>26 117 539</b>	<b>252 629 768</b>	<b>187 875 131</b>	<b>439 381 300</b>	<b>24 768 490</b>
Establishments with—												
1 to 4 employees	8	4 827	-	9 762	318 592	6 557	10 519	155 201	722 896	605 298	1 350 028	76 591
5 to 9 employees	8	2 497	-	16 782	561 440	9 663	16 922	258 801	1 267 218	956 556	2 256 679	128 935
10 to 19 employees	5	2 498	-	34 640	1 196 463	19 552	34 763	515 122	2 736 649	2 026 670	4 808 842	241 393
20 to 49 employees	3	2 952	2 952	93 488	3 274 440	54 017	101 473	1 336 544	7 404 091	5 144 271	12 606 676	537 031
50 to 99 employees	2	1 769	1 769	125 551	4 524 648	72 902	142 673	1 807 765	10 395 375	8 026 208	18 469 858	792 894
100 to 249 employees	1	1 589	1 589	D	D	D	D	D	D	D	D	D
250 to 499 employees	-	652	652	D	D	D	D	D	D	D	D	D
500 to 999 employees	-	380	380	266 071	10 917 883	150 719	303 368	4 456 294	37 820 621	30 373 489	68 069 391	4 223 004
1,000 to 2,499 employees	-	197	197	301 850	14 659 636	144 119	299 662	4 885 991	59 840 941	36 628 595	96 108 742	5 871 226
2,500 employees or more	-	74	74	367 085	19 020 108	144 048	287 278	5 442 798	82 071 623	63 073 555	144 469 319	6 885 548
Administrative records <sup>2</sup>	9	7 270	-	43 829	1 242 234	25 663	40 768	595 913	2 729 353	2 134 403	4 939 929	323 724
<b>335. ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG</b>												
<b>All establishments</b> .....	-	<b>6 930</b>	<b>3 312</b>	<b>593 802</b>	<b>18 972 741</b>	<b>432 273</b>	<b>860 344</b>	<b>11 368 753</b>	<b>57 215 610</b>	<b>54 987 295</b>	<b>112 116 267</b>	<b>3 598 750</b>
Establishments with—												
1 to 4 employees	8	1 680	-	3 459	97 604	2 582	4 361	53 916	234 808	210 579	450 633	14 121
5 to 9 employees	7	937	-	6 383	189 554	4 375	7 701	102 118	464 899	397 125	872 938	26 048
10 to 19 employees	4	1 001	-	13 934	423 981	9 272	16 685	218 165	1 066 789	876 430	1 961 945	45 848
20 to 49 employees	2	1 211	1 211	38 705	1 210 673	25 525	48 839	588 849	2 818 108	2 432 980	5 271 415	118 741
50 to 99 employees	1	717	717	50 687	1 580 124	34 024	66 777	788 292	4 131 243	3 862 484	8 023 055	217 975
100 to 249 employees	-	774	774	120 774	3 719 194	85 024	172 412	2 057 047	10 807 521	11 160 917	21 931 977	695 504
250 to 499 employees	-	377	377	132 050	4 230 353	97 881	201 716	2 638 701	12 892 117	12 439 105	25 265 535	869 978
500 to 999 employees	-	167	167	112 599	3 543 681	83 838	165 889	2 234 714	11 733 192	11 187 976	22 926 206	768 121
1,000 to 2,499 employees	-	55	55	80 184	2 746 896	60 796	122 227	1 784 002	8 720 198	8 687 006	17 400 485	667 839
2,500 employees or more	-	11	11	35 027	1 230 681	28 956	53 737	902 949	4 346 735	3 732 693	8 012 078	174 575
Administrative records <sup>2</sup>	9	2 501	-	13 736	349 444	9 838	15 898	204 106	876 353	773 105	1 669 596	51 018
<b>336. TRANSPORTATION EQUIPMENT MFG</b>												
<b>All establishments</b> .....	-	<b>12 887</b>	<b>5 816</b>	<b>1 842 315</b>	<b>79 616 518</b>	<b>1 340 735</b>	<b>2 734 790</b>	<b>51 450 169</b>	<b>227 510 551</b>	<b>348 121 929</b>	<b>575 306 996</b>	<b>19 251 148</b>
Establishments with—												
1 to 4 employees	8	3 566	-	D	D	D	D	D	D	D	D	D
5 to 9 employees	7	1 785	-	D	D	D	D	D	D	D	D	D
10 to 19 employees	5	1 720	-	23 837	643 587	18 211	30 366	404 788	1 569 780	1 706 538	3 263 437	114 781
20 to 49 employees	3	2 026	2 026	63 766	1 843 006	47 537	87 514	1 100 890	4 149 220	4 342 199	8 490 313	296 848
50 to 99 employees	1	1 179	1 179	83 347	2 435 414	63 373	124 926	1 534 135	5 627 483	6 358 851	11 956 087	471 451
100 to 249 employees	1	1 268	1 268	203 501	6 109 648	155 569	314 094	3 895 601	15 940 177	19 419 982	35 328 384	1 385 014
250 to 499 employees	-	720	720	250 534	7 799 284	195 186	397 110	5 211 402	21 133 897	29 066 748	50 061 133	1 940 673
500 to 999 employees	-	330	330	226 836	7 946 667	178 160	368 568	5 564 715	20 186 339	28 366 737	48 340 315	1 618 477
1,000 to 2,499 employees	-	161	161	246 716	11 968 862	194 645	408 220	8 902 233	35 347 281	56 402 178	91 171 088	4 557 983
2,500 employees or more	-	132	132	724 417	40 393 055	472 700	980 919	24 523 731	122 468 227	201 112 717	324 242 964	8 761 331
Administrative records <sup>2</sup>	9	4 706	-	27 800	654 804	21 966	31 634	432 998	1 372 538	1 633 323	3 032 892	121 814
<b>337. FURNITURE &amp; RELATED PRODUCT MFG</b>												
<b>All establishments</b> .....	1	<b>20 738</b>	<b>4 756</b>	<b>603 668</b>	<b>14 986 222</b>	<b>484 600</b>	<b>936 574</b>	<b>10 217 032</b>	<b>34 839 134</b>	<b>29 462 249</b>	<b>64 299 098</b>	<b>1 744 608</b>
Establishments with—												
1 to 4 employees	8	9 017	-	18 249	352 801	16 100	24 709	261 450	667 374	606 377	1 277 298	38 401
5 to 9 employees	5	3 960	-	26 332	554 468	20 991	34 965	398 971	1 067 625	910 928	1 984 724	55 419
10 to 19 employees	3	3 005	-	41 076	917 221	32 121	55 852	628 685	1 804 962	1 507 246	3 311 822	85 668
20 to 49 employees	2	2 398	2 398	74 158	1 803 623	57 450	106 503	1 164 130	3 596 641	2 987 791	6 581 630	188 126
50 to 99 employees	1	1 112	1 112	77 501	1 940 437	60 398	116 308	1 227 707	4 097 230	3 575 990	7 682 065	203 861
100 to 249 employees	1	806	806	125 170	3 103 930	98 917	195 165	2 061 864	7 488 778	6 887 754	14 426 474	366 487
250 to 499 employees	-	284	284	D	D	D	D	D	D	D	D	D
500 to 999 employees	-	120	120	78 873	1 950 718	65 892	135 015	1 437 090	4 679 685	3 768 540	8 423 373	247 669
1,000 to 2,499 employees	-	31	31	42 912	1 139 569	34 331	68 652	779 831	3 022 055	2 588 600	5 578 605	136 858
2,500 employees or more	-	5	5	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup>	9	9 408	-	33 145	582 564	27 902	40 770	425 915	1 099 137	1 042 501	2 146 679	63 383
<b>339. MISCELLANEOUS MFG</b>												
<b>All establishments</b> .....	1	<b>31 476</b>	<b>5 875</b>	<b>725 396</b>	<b>21 618 204</b>	<b>492 558</b>	<b>938 191</b>	<b>10 970 663</b>	<b>61 452 548</b>	<b>38 263 345</b>	<b>99 729 798</b>	<b>3 432 599</b>
Establishments with—												
1 to 4 employees	8	16 182	-	31 049	684 799	23 664	34 177	374 775	1 669 118	1 133 249	2 815 834	85 429
5 to 9 employees	6	5 549	-	36 670	893 382	25 706	41 676	507 242	2 102 193	1 346 907	3 467 374	101 618
10 to 19 employees	3	3 870	-	52 563	1 379 826	36 691	63 960	764 376	3 177 887	2 007 075	5 190 438	140 111
20 to 49 employees	2	3 056	3 056	93 940	2 601 356	64 611	119 084	1 357 229	5 706 506	4 122 597	9 822 475	287 598
50 to 99 employees	2	1 402	1 402	97 591	2 753 151	66 367	126 567	1 391 810	6 708 433	4 859 458	11 545 302	337 825
100 to 249 employees	1	895	895	136 022	3 940 232	93 315	182 978	2 030 199	10 470 275	7 580 072	18 028 237	617 982
250 to 499 employees	-	339	339	118 845	3 809 053	80 096	162 843	1 886 702	11 189 515	7 445 437	18 592 245	674 879
500 to 999 employees	-	138	138	91 578	3 033 296	60 303	122 296	1 518 037	10 449 737	5 702 271	16 113 764	626 806
1,000 to 2,499 employees	-	44	44	64 252	2 426 388	39 694	81 124	1 084 337	8 961 170	3 902 903	12 982 029	515 400
2,500 employees or more	-	1	1	D	D	D	D	D	D	D	D	D
Administrative records <sup>2</sup>	9	17 626	-	55 737	1 179 898	40 171	55 972	626 361	2 873 659	1 916 720	4 814 852	164 384

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

<sup>2</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

**Table 2-1. Industry Statistics for States: 1997**

[Includes data for industry groups and industries with 100 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]

Geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>United States</b> .....	-	<b>362 829</b>	<b>119 748</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
Alabama .....	-	5 431	2 080	351 466	10 170 963	274 823	544 806	6 922 461	28 762 420	38 687 820	67 477 260	3 051 253
Alaska .....	-	486	101	10 722	329 324	8 669	18 942	236 311	1 153 433	2 104 778	3 283 362	129 586
Arizona .....	-	4 906	1 362	193 303	6 740 161	121 631	245 413	2 992 380	27 900 974	15 838 358	43 994 086	2 506 179
Arkansas .....	-	3 302	1 237	229 093	5 756 536	186 668	367 624	4 178 912	19 392 561	25 868 119	45 223 211	1 557 573
California .....	1	49 291	15 167	1 795 000	65 346 827	1 173 062	2 296 334	30 927 960	196 182 882	183 934 654	378 729 557	16 362 409
Colorado .....	1	5 466	1 252	172 307	6 170 883	114 457	224 728	3 156 218	20 609 367	19 311 738	39 812 716	1 698 936
Connecticut .....	1	5 829	1 914	250 848	10 401 916	152 009	315 068	4 877 952	27 298 479	19 789 500	46 864 998	1 861 915
Delaware .....	-	671	228	39 954	1 489 381	29 041	59 829	918 390	5 209 618	8 072 414	13 205 659	508 385
District of Columbia .....	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Florida .....	1	15 951	3 593	427 566	12 973 069	288 139	555 402	6 721 651	39 767 726	37 289 528	76 706 327	2 927 882
Georgia .....	-	9 053	3 277	531 450	15 473 204	408 569	826 574	10 126 167	55 426 485	69 050 254	124 003 137	4 153 507
Hawaii .....	3	919	159	15 093	404 629	9 891	18 343	231 349	1 261 303	1 939 948	3 189 892	100 669
Idaho .....	-	1 643	417	65 997	2 094 462	50 198	89 069	1 272 880	6 383 900	10 620 606	16 900 224	1 393 009
Illinois .....	-	17 912	6 538	883 358	31 686 026	626 460	1 278 831	18 625 974	95 342 475	104 853 848	199 893 976	7 344 742
Indiana .....	-	9 279	3 928	625 684	22 163 782	477 158	978 646	14 919 136	67 173 341	75 629 502	142 182 844	5 525 986
Iowa .....	-	3 743	1 407	236 865	7 604 137	177 032	356 074	4 942 866	28 615 467	34 116 111	62 511 051	1 972 637
Kansas .....	-	3 296	1 140	193 002	6 513 519	140 573	280 314	4 039 225	18 987 474	29 081 270	46 860 651	1 458 041
Kentucky .....	-	4 205	1 707	288 541	9 197 961	224 434	455 748	6 249 883	39 062 786	48 696 757	87 515 235	3 426 692
Louisiana .....	-	3 536	1 164	164 938	6 025 203	122 970	256 824	3 949 080	27 463 050	31 043 098	78 333 959	3 513 342
Maine .....	1	1 809	510	81 279	2 562 912	62 022	120 642	1 736 601	6 698 567	7 386 714	14 066 822	592 362
Maryland .....	1	3 986	1 204	163 145	5 810 016	109 090	218 330	3 233 951	18 705 455	17 772 765	36 442 590	1 462 124
Massachusetts .....	1	9 534	3 295	415 224	16 274 205	256 775	520 200	7 737 438	45 132 888	33 561 348	78 612 764	3 355 273
Michigan .....	-	16 005	5 716	828 396	34 209 572	626 881	1 299 481	23 377 382	93 366 860	120 632 388	213 996 415	9 397 575
Minnesota .....	-	8 064	2 709	379 938	13 069 217	257 910	513 688	7 222 024	36 567 010	39 853 947	75 988 847	3 886 779
Mississippi .....	-	2 996	1 274	227 001	5 580 639	182 043	360 610	3 891 078	17 184 299	22 608 005	39 821 220	1 407 858
Missouri .....	-	7 477	2 482	367 549	11 551 114	267 979	526 652	7 135 310	43 071 878	47 323 830	92 745 261	2 656 471
Montana .....	-	1 158	178	19 478	557 878	14 884	27 386	392 709	1 876 897	4 675 305	5 004 527	150 462
Nebraska .....	-	1 958	610	106 556	3 034 134	83 975	172 999	2 129 405	10 460 265	17 459 386	27 939 376	721 776
Nevada .....	1	1 610	403	37 473	1 164 476	26 040	51 573	670 749	3 260 969	3 025 752	6 297 518	311 537
New Hampshire .....	1	2 321	751	97 928	3 318 423	68 228	134 236	1 920 807	11 129 674	8 528 850	19 663 103	700 466
New Jersey .....	1	11 788	3 809	407 272	15 314 686	274 363	555 738	8 112 739	49 432 983	46 768 915	96 179 751	3 096 106
New Mexico .....	-	1 588	290	39 539	1 131 505	29 244	56 972	718 570	13 487 517	4 675 305	18 096 992	572 910
New York .....	1	23 862	6 653	778 833	26 319 424	533 795	1 049 318	14 577 589	75 858 926	68 693 723	145 019 529	5 626 038
North Carolina .....	-	11 276	4 600	771 474	21 202 451	599 534	1 192 012	13 992 938	79 790 807	83 038 366	162 805 526	5 214 477
North Dakota .....	1	702	188	21 948	604 532	16 359	31 447	386 806	2 008 799	3 297 443	5 295 480	201 019
Ohio .....	-	17 921	6 855	980 133	35 811 374	727 110	1 494 596	23 489 758	112 361 392	129 408 857	241 489 801	8 851 039
Oklahoma .....	-	4 079	1 187	163 812	4 967 086	122 352	241 863	3 222 983	17 226 649	20 228 803	37 423 437	1 082 614
Oregon .....	-	5 749	1 662	211 329	7 045 200	157 068	314 114	4 513 660	25 100 453	22 613 809	47 534 802	3 018 411
Pennsylvania .....	1	17 087	6 319	820 204	27 528 493	593 401	1 187 997	17 002 772	86 116 509	86 181 634	171 494 390	6 840 011
Rhode Island .....	1	2 526	696	74 666	2 264 507	52 213	103 787	1 265 607	5 462 493	4 882 795	10 388 007	397 298
South Carolina .....	-	4 437	1 860	343 452	10 312 408	265 645	536 612	6 814 088	33 343 682	37 125 249	70 384 095	3 405 410
South Dakota .....	-	884	289	46 287	1 155 969	33 041	64 773	703 545	4 352 357	7 811 807	12 164 706	262 798
Tennessee .....	-	7 384	2 888	482 639	14 329 669	374 140	741 421	9 454 387	44 527 758	54 195 539	98 649 891	3 853 294
Texas .....	-	21 763	6 753	958 232	32 718 983	663 356	1 340 712	18 093 008	127 579 894	169 487 234	296 782 631	12 505 676
Utah .....	-	2 855	857	121 899	3 765 895	86 686	169 255	2 246 557	11 689 959	13 346 669	24 953 032	948 033
Vermont .....	-	1 225	339	42 503	1 457 047	29 291	57 719	757 088	4 028 276	3 929 084	7 799 397	732 944
Virginia .....	-	5 970	2 032	370 242	11 549 863	274 381	549 218	7 243 796	43 180 687	40 772 089	83 872 063	3 423 260
Washington .....	1	7 781	2 145	327 207	12 970 253	212 981	424 129	7 042 745	31 534 413	48 896 972	78 507 552	2 628 861
West Virginia .....	-	1 499	512	72 425	2 453 353	55 378	112 022	1 655 632	8 980 535	8 941 129	17 947 576	914 250
Wisconsin .....	-	9 914	3 886	560 582	18 874 331	414 966	829 277	12 001 190	54 974 219	62 210 676	117 150 720	4 134 060
Wyoming .....	1	503	90	8 448	256 382	6 426	12 209	174 810	1 030 583	1 910 250	2 955 070	76 990

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

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



**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
	E <sup>1</sup>	Total	With 20 em- ploy- ees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>United States</b> .....	-	<b>362 829</b>	<b>119 748</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
<b>Alabama</b> .....	-	<b>5 431</b>	<b>2 080</b>	<b>351 466</b>	<b>10 170 963</b>	<b>274 823</b>	<b>544 806</b>	<b>6 922 461</b>	<b>28 762 420</b>	<b>38 687 820</b>	<b>67 477 260</b>	<b>3 051 253</b>
Anniston, AL MSA.....	-	149	65	10 841	257 848	8 573	16 609	178 367	718 000	812 995	1 504 506	54 261
Birmingham, AL MSA.....	-	1 118	399	47 875	1 476 126	35 043	74 600	936 955	3 896 849	4 928 155	8 875 096	280 083
Columbus, GA-AL MSA.....	1	230	99	19 930	597 036	15 017	32 427	394 338	2 171 632	2 183 278	4 357 805	221 782
Columbus, GA-AL MSA (AL Part).....	-	49	19	3 295	107 782	2 757	6 049	80 709	540 642	462 403	1 000 399	89 114
Columbus, GA-AL MSA (GA Part).....	1	181	80	16 635	489 254	12 260	26 378	313 629	1 630 990	1 720 875	3 357 406	132 668
Decatur, AL MSA.....	-	243	92	16 307	609 583	13 003	27 215	426 547	2 176 921	3 439 881	5 627 092	296 078
Dothan, AL MSA.....	-	150	55	10 474	254 396	8 132	16 547	170 106	698 423	835 372	1 522 766	59 597
Florence, AL MSA.....	-	232	71	12 812	367 183	10 297	21 457	261 049	591 750	1 600 981	2 354 618	86 211
Gadsden, AL MSA.....	1	136	47	8 775	276 968	6 778	13 997	184 542	679 026	900 527	1 577 010	59 507
Huntsville, AL MSA.....	-	403	142	35 040	1 387 375	23 917	47 460	878 386	3 613 692	4 811 339	8 311 278	259 755
Mobile, AL MSA.....	-	582	178	27 251	961 964	19 493	40 215	602 772	2 877 303	3 349 006	6 274 401	361 704
Montgomery, AL MSA.....	-	301	109	15 697	423 067	11 269	20 866	257 527	1 318 426	1 325 669	2 656 017	90 220
Tuscaloosa, AL MSA.....	-	160	57	10 738	388 146	8 500	17 269	275 459	926 357	1 663 679	2 557 859	232 117
<b>Alaska</b> .....	-	<b>486</b>	<b>101</b>	<b>10 722</b>	<b>329 324</b>	<b>8 669</b>	<b>18 942</b>	<b>236 311</b>	<b>1 153 433</b>	<b>2 104 778</b>	<b>3 283 362</b>	<b>129 586</b>
Anchorage, AK MSA.....	4	186	26	2 013	62 025	1 450	2 687	37 920	155 011	162 007	317 512	10 767
<b>Arizona</b> .....	-	<b>4 906</b>	<b>1 362</b>	<b>193 303</b>	<b>6 740 161</b>	<b>121 631</b>	<b>245 413</b>	<b>2 992 380</b>	<b>27 900 974</b>	<b>15 838 358</b>	<b>43 994 086</b>	<b>2 506 179</b>
Flagstaff, AZ-UT MSA.....	-	101	15	2 487	81 859	1 411	2 913	32 697	358 079	241 868	603 701	27 506
Flagstaff, AZ-UT MSA (AZ Part).....	-	95	13	g	D	D	D	D	D	D	D	D
Flagstaff, AZ-UT MSA (UT Part).....	-	6	2	e	D	D	D	D	D	D	D	D
Las Vegas, NV-AZ MSA.....	1	988	223	21 428	631 147	15 967	31 279	408 053	2 019 046	1 852 744	3 890 837	130 611
Las Vegas, NV-AZ MSA (AZ Part).....	-	156	33	3 807	85 202	3 166	5 735	60 768	346 634	398 926	760 366	17 181
Las Vegas, NV-AZ MSA (NV Part).....	1	832	190	17 621	545 945	12 801	25 544	347 285	1 672 412	1 453 818	3 130 471	113 430
Phoenix-Mesa, AZ MSA.....	1	3 430	1 021	148 108	5 192 454	92 204	188 593	2 310 765	23 020 637	11 678 513	34 601 624	2 241 601
Tucson, AZ MSA.....	-	762	198	26 666	1 060 576	14 960	28 807	354 694	3 417 807	2 400 468	6 133 408	153 294
Yuma, AZ MSA.....	-	66	17	3 041	54 607	2 701	5 266	42 916	158 034	232 735	389 463	10 278
<b>Arkansas</b> .....	-	<b>3 302</b>	<b>1 237</b>	<b>229 093</b>	<b>5 756 536</b>	<b>186 668</b>	<b>367 624</b>	<b>4 178 912</b>	<b>19 392 561</b>	<b>25 868 119</b>	<b>45 223 211</b>	<b>1 557 573</b>
Fayetteville-Springdale-Rogers, AR MSA.....	-	382	147	28 509	692 128	23 175	46 197	512 944	2 212 101	2 731 413	4 913 106	132 600
Fort Smith, AR-OK MSA.....	-	312	128	26 985	673 146	22 220	43 486	493 614	2 226 593	2 742 393	4 994 854	147 634
Fort Smith, AR-OK MSA (AR Part).....	-	293	123	k	D	D	D	D	D	D	D	145 750
Fort Smith, AR-OK MSA (OK Part).....	-	19	5	e	D	D	D	D	D	D	D	1 884
Jonesboro, AR MSA.....	-	122	45	6 886	184 942	5 474	11 083	125 946	507 570	758 253	1 257 594	39 684
Little Rock-North Little Rock, AR MSA.....	-	633	215	31 609	861 902	23 905	46 277	558 575	2 876 478	3 339 226	6 222 233	212 615
Memphis, TN-AR-MS MSA.....	1	1 149	471	57 634	1 854 726	40 058	80 976	1 065 814	6 192 353	8 430 963	14 703 789	498 743
Memphis, TN-AR-MS MSA (AR Part).....	-	44	22	2 272	54 786	1 784	3 491	35 491	216 773	397 575	609 651	19 486
Memphis, TN-AR-MS MSA (MS Part).....	1	129	61	6 977	207 151	5 165	11 188	132 937	553 437	786 858	1 339 191	39 128
Memphis, TN-AR-MS MSA (TN Part).....	-	976	388	48 385	1 592 789	33 109	66 297	897 386	5 422 143	7 246 530	12 754 947	440 129
Pine Bluff, AR MSA.....	-	84	37	7 663	216 451	6 375	13 201	165 434	743 300	968 534	1 744 549	41 691
Texarkana, TX-Texarkana, AR MSA.....	-	100	33	6 330	227 682	4 665	9 383	152 714	622 525	855 184	1 471 132	57 204
Texarkana, TX-Texarkana, AR MSA (AR Part).....	-	25	8	2 274	99 726	1 648	3 092	68 033	263 404	236 887	495 614	25 144
Texarkana, TX-Texarkana, AR MSA (TX Part).....	-	75	25	4 056	127 956	3 017	6 291	84 681	359 121	618 297	975 518	32 060
<b>California</b> .....	1	<b>49 291</b>	<b>15 167</b>	<b>1 795 000</b>	<b>65 346 827</b>	<b>1 173 062</b>	<b>2 296 334</b>	<b>30 927 960</b>	<b>196 182 882</b>	<b>183 934 654</b>	<b>378 729 557</b>	<b>16 362 409</b>
Bakersfield, CA MSA.....	1	390	88	14 306	379 246	11 322	24 464	250 987	1 608 492	1 189 154	2 824 572	145 184
Chico-Paradise, CA MSA.....	2	232	55	5 226	132 654	4 184	8 031	92 784	386 425	404 961	788 663	41 327
Fresno, CA MSA.....	1	787	261	31 288	817 462	22 769	44 628	507 368	2 766 095	3 973 540	6 573 266	193 766
Los Angeles-Riverside-Orange County, CA CMSA.....	1	28 030	9 038	973 503	31 989 254	672 824	1 302 416	16 350 430	87 684 749	82 535 577	170 366 458	6 657 464
Los Angeles-Long Beach, CA PMSA.....	1	17 873	5 805	617 701	20 143 991	427 121	808 826	10 218 062	54 036 324	52 398 722	106 729 858	3 522 357
Orange County, CA PMSA.....	1	5 750	1 816	214 039	7 573 480	141 433	287 178	20 861 849	20 861 744	17 759 173	38 535 785	2 156 373
Riverside-San Bernardino, CA PMSA.....	1	3 401	1 098	108 285	3 136 778	82 212	161 488	1 960 902	9 375 931	9 721 423	19 083 771	746 939
Ventura, CA PMSA.....	1	1 006	319	33 478	1 135 005	22 058	44 924	554 617	3 410 750	2 656 259	6 017 044	231 795
Merced, CA MSA.....	1	123	52	8 377	198 384	6 756	13 749	148 746	673 843	1 873 201	2 443 359	73 832
Modesto, CA MSA.....	-	433	161	24 317	794 436	18 331	37 235	505 259	2 994 006	3 702 068	6 672 339	184 675
Redding, CA MSA.....	1	177	32	3 526	118 739	2 549	4 955	79 515	261 675	375 777	635 027	20 828
Sacramento-Yolo, CA CMSA.....	-	1 488	362	47 671	1 692 384	29 477	57 149	755 953	7 672 684	6 986 330	14 554 696	430 661
Sacramento, CA PMSA.....	-	1 313	309	41 493	1 480 407	25 263	48 622	639 525	7 040 519	6 080 171	13 039 778	378 354
Yolo, CA PMSA.....	1	175	53	6 178	211 977	4 214	8 527	116 428	632 165	906 159	1 514 918	52 307
Salinas, CA MSA.....	3	301	66	7 046	222 874	5 091	9 790	131 914	696 896	651 636	1 325 164	64 385
San Diego, CA MSA.....	1	3 389	943	117 364	4 157 974	72 377	141 584	1 830 770	10 924 962	11 197 870	21 976 672	894 901
San Francisco-Oakland-San Jose, CA CMSA.....	1	11 012	3 309	474 921	22 129 403	263 105	525 274	8 604 400	71 889 273	60 371 764	131 400 646	7 030 974
Oakland, CA PMSA.....	1	3 224	1 014	112 429	4 653 276	72 323	142 772	2 399 574	15 353 665	19 931 100	35 098 152	1 608 035
San Francisco, CA PMSA.....	2	2 603	633	63 143	2 423 542	41 205	78 834	1 080 848	6 618 033	4 649 838	11 221 385	484 935
San Jose, CA PMSA.....	-	3 454	1 190	248 089	13 117 053	116 372	240 484	4 173 410	43 554 463	29 223 949	72 325 437	4 348 924
Santa Cruz-Watsonville, CA PMSA.....	1	385	87	9 484	299 106	6 126	11 782	151 397	1 059 585	905 882	2 005 000	78 853
Santa Rosa, CA PMSA.....	1	792	217	24 135	984 673	15 681	29 655	463 682	2 880 735	2 390 917	5 114 593	239 792
Vallejo-Fairfield-Napa, CA PMSA.....	-	554	168	17 641	651 753	11 398	21 747	335 489	2 422 792	3 270 078	5 636 079	270 435
San Luis Obispo-Atascadero-Paso Robles, CA MSA.....	4	322	68	6 122	175 594	4 001	7 339	89 827	608 815	529 584	1 141 001	51 177
Santa Barbara-Santa Maria-Lompoc, CA MSA.....	1	502	135	14 968	584 344	8 218	14 895	204 612	1 463 489	1 149 104	2 769 838	88 096
Stockton-Lodi, CA MSA.....	1	550	208	24 516	747 443	19 168	38 863	525 436	2 879 276	3 199 602	5 860 509	208 422
Visalia-Tulare-Porterville, CA MSA.....	1	282	101	11 439	311 097	8 825	18 107	211 785	1 106 619	2 094 858	3 167 304	94 983
Yuba City, CA MSA.....	1	113	30	2 772	75 425	2 208	4 587	51 747</				

**Table 2-2. 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]

Geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>Colorado</b> .....	<b>1</b>	<b>5 466</b>	<b>1 252</b>	<b>172 307</b>	<b>6 170 883</b>	<b>114 457</b>	<b>224 728</b>	<b>3 156 218</b>	<b>20 609 367</b>	<b>19 311 738</b>	<b>39 812 716</b>	<b>1 698 936</b>
Colorado Springs, CO MSA .....	-	498	119	21 543	699 495	15 114	31 167	357 979	2 960 860	2 772 290	5 688 476	379 649
Denver-Boulder-Greeley, CO CMSA .....	1	3 524	870	114 563	4 302 050	75 473	145 418	2 187 390	14 160 869	12 270 188	26 302 396	956 304
Boulder-Longmont, CO PMSA ....	1	685	175	26 140	1 049 815	15 120	28 762	400 600	3 187 258	2 060 311	5 196 724	357 292
Denver, CO PMSA .....	1	2 631	628	77 650	2 906 876	52 602	101 326	1 589 242	9 184 678	7 702 707	16 767 207	513 677
Greeley, CO PMSA .....	-	208	67	10 773	345 359	7 751	15 330	197 548	1 788 933	2 507 170	4 338 465	85 335
Fort Collins-Loveland, CO MSA .....	-	384	88	15 840	645 044	8 321	15 778	256 233	1 999 485	1 834 149	3 894 356	252 442
Grand Junction, CO MSA .....	1	167	34	3 606	99 170	2 615	5 401	60 741	262 619	217 956	484 231	25 338
Pueblo, CO MSA .....	-	107	32	4 688	147 003	3 392	7 255	98 733	500 340	517 179	1 021 319	36 397
<b>Connecticut</b> .....	<b>1</b>	<b>5 829</b>	<b>1 914</b>	<b>250 848</b>	<b>10 401 916</b>	<b>152 009</b>	<b>315 068</b>	<b>4 877 952</b>	<b>27 298 479</b>	<b>19 789 500</b>	<b>46 864 998</b>	<b>1 861 915</b>
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA .....	1	8 825	3 057	393 348	15 697 919	240 852	484 139	7 447 978	46 573 198	34 225 382	80 768 743	3 632 504
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (CT Part) .....	-	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (ME Part) .....	-	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (MA Part) .....	1	7 433	2 609	330 855	13 447 729	198 608	401 705	6 192 192	38 216 143	27 526 320	65 701 859	3 128 398
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (NH Part) .....	1	1 332	433	60 885	2 198 637	41 125	79 937	1 223 919	8 228 762	6 410 610	14 647 636	496 628
Worcester, MA-CT PMSA .....	1	855	335	38 779	1 529 041	24 901	50 402	736 934	3 745 293	2 851 156	6 594 330	299 627
Worcester, MA-CT PMSA (CT Part) .....	-	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Worcester, MA-CT PMSA (MA Part) .....	1	836	328	38 232	1 508 684	24 516	49 558	726 664	3 701 367	2 822 443	6 523 086	296 977
Hartford, CT MSA .....	1	2 071	705	89 313	3 748 543	55 582	115 102	1 851 225	8 382 623	6 765 098	14 963 968	560 745
New London-Norwich, CT-RI MSA ..	-	334	93	24 244	1 173 786	10 865	22 825	341 986	2 218 408	1 410 264	3 648 491	238 883
New London-Norwich, CT-RI MSA (CT Part) .....	1	288	78	22 719	1 125 251	9 708	20 455	308 897	2 100 970	1 303 244	3 420 042	232 189
New London-Norwich, CT-RI MSA (RI Part) .....	-	46	15	1 525	48 535	1 157	2 370	33 089	117 438	107 020	228 449	6 694
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA ..	1	29 558	8 200	830 950	29 097 207	553 321	1 093 927	14 901 482	87 014 682	74 718 992	161 783 475	5 629 850
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (CT Part) .....	1	3 133	1 012	125 723	5 087 546	76 929	159 190	2 449 285	15 604 628	10 833 670	26 371 814	1 001 942
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NJ Part) .....	1	9 861	3 169	333 660	12 664 586	223 013	454 720	6 555 475	41 282 057	36 805 865	77 989 382	2 587 972
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NY Part) .....	2	16 536	4 015	371 232	11 334 976	253 202	479 752	5 893 542	30 102 207	26 976 237	57 285 948	2 036 548
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (PA Part) .....	-	28	4	335	10 099	177	265	3 180	25 790	103 220	136 331	3 388
Bridgeport, CT PMSA .....	1	843	272	37 092	1 587 135	22 815	46 622	801 694	3 502 180	2 614 378	6 278 436	225 120
Danbury, CT PMSA .....	-	354	112	14 774	662 650	8 441	17 349	284 039	2 247 461	1 558 024	3 809 784	115 679
New Haven-Meriden, CT PMSA ..	-	933	322	39 561	1 542 736	24 225	50 551	706 897	5 228 254	3 553 589	8 703 692	309 200
Stamford-Norwalk, CT PMSA .....	1	487	119	16 668	690 603	8 861	18 279	280 883	3 088 568	1 697 149	4 643 697	222 066
Waterbury, CT PMSA .....	1	516	187	17 628	604 422	12 587	26 389	375 772	1 538 165	1 410 530	2 936 205	129 877
<b>Delaware</b> .....	<b>-</b>	<b>671</b>	<b>228</b>	<b>39 954</b>	<b>1 489 381</b>	<b>29 041</b>	<b>59 829</b>	<b>918 390</b>	<b>5 209 618</b>	<b>8 072 414</b>	<b>13 205 659</b>	<b>508 385</b>
Dover, DE MSA .....	-	81	27	7 006	200 867	5 544	11 409	138 872	889 667	867 406	1 768 230	39 993
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA .....	1	7 550	2 502	291 975	11 050 670	196 167	395 431	6 199 918	35 695 230	42 640 935	78 071 701	3 136 635
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (DE Part) .....	-	455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (MD Part) .....	-	55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (NJ Part) .....	1	1 927	640	73 612	2 650 100	51 350	101 018	1 557 264	8 150 926	9 963 050	18 190 369	508 134
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (PA Part) .....	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Wilmington-Newark, DE-MD PMSA .....	-	510	171	25 225	1 125 072	16 562	35 163	659 378	3 424 237	6 033 481	9 389 151	462 746
Wilmington-Newark, DE-MD PMSA (DE Part) .....	-	455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Wilmington-Newark, DE-MD PMSA (MD Part) .....	-	55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
<b>District of Columbia</b> .....	<b>2</b>	<b>199</b>	<b>35</b>	<b>2 847</b>	<b>100 865</b>	<b>1 916</b>	<b>3 714</b>	<b>60 680</b>	<b>170 633</b>	<b>149 165</b>	<b>319 884</b>	<b>9 832</b>
Washington-Baltimore, DC-MD-VA-WV CMSA .....	1	4 964	1 385	179 493	6 686 803	117 732	235 748	3 603 434	20 487 360	18 555 619	38 984 161	1 498 540
Washington-Baltimore, DC-MD-VA-WV CMSA (DC Part) .....	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington-Baltimore, DC-MD-VA-WV CMSA (MD Part) .....	1	3 473	1 030	137 668	5 116 580	90 053	180 724	2 793 587	16 366 918	15 077 589	31 402 048	1 135 243
Washington-Baltimore, DC-MD-VA-WV CMSA (VA Part) .....	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington-Baltimore, DC-MD-VA-WV CMSA (WV Part) .....	-	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
Washington, DC-MD-VA-WV PMSA .....	1	2 649	665	77 580	2 978 073	48 653	97 352	1 435 395	7 928 071	6 572 439	14 437 528	729 970

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>District of Columbia—Con.</b>												
Washington-Baltimore, DC-MD-VA-WV CMSA—Con.												
Washington, DC-MD-VA-WV PMSA (DC Part)	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington, DC-MD-VA-WV PMSA (MD Part)	1	1 158	310	35 755	1 407 850	20 974	42 328	625 548	3 807 629	3 094 409	6 855 415	366 673
Washington, DC-MD-VA-WV PMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington, DC-MD-VA-WV PMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
<b>Florida</b>	<b>1</b>	<b>15 951</b>	<b>3 593</b>	<b>427 566</b>	<b>12 973 069</b>	<b>288 139</b>	<b>555 402</b>	<b>6 721 651</b>	<b>39 767 726</b>	<b>37 289 528</b>	<b>76 706 327</b>	<b>2 927 882</b>
Daytona Beach, FL MSA	1	434	92	11 776	309 106	8 545	15 577	185 029	792 836	698 095	1 473 229	53 307
Fort Myers-Cape Coral, FL MSA	3	357	64	5 363	141 129	3 904	7 347	85 578	398 859	350 373	751 763	22 213
Fort Pierce-Port St. Lucie, FL MSA	1	295	59	4 989	137 732	3 531	6 618	89 229	528 363	585 800	1 003 103	61 461
Fort Lauderdale, FL MSA	1	132	27	3 443	81 475	2 297	4 069	42 112	166 759	130 391	293 960	11 746
Gainesville, FL MSA	1	149	40	5 188	155 935	4 147	7 526	111 832	455 257	542 304	1 002 627	72 919
Jacksonville, FL MSA	—	949	270	33 833	1 118 021	24 161	48 643	672 704	4 478 150	3 953 980	8 410 868	317 093
Lakeland-Winter Haven, FL MSA	—	478	184	20 390	626 419	15 035	31 101	376 033	2 542 359	3 350 867	5 861 293	166 472
Melbourne-Titusville-Palm Bay, FL MSA	—	492	111	20 727	751 751	10 478	19 952	258 968	1 837 857	1 516 330	3 426 502	104 943
Miami-Fort Lauderdale, FL CMSA	2	4 985	1 021	100 521	2 655 679	71 325	132 962	1 452 484	7 819 193	5 996 940	13 805 327	370 486
Fort Lauderdale, FL PMSA	2	1 960	366	37 104	1 109 163	24 329	45 462	550 010	3 308 494	2 521 785	5 817 081	158 656
Miami, FL PMSA	2	3 025	655	63 417	1 546 516	46 996	87 500	902 474	4 510 699	3 475 155	7 988 246	211 830
Naples, FL MSA	3	205	26	2 305	62 433	1 732	3 342	39 697	141 720	117 715	258 993	12 343
Ocala, FL MSA	1	214	68	9 578	237 123	6 804	12 489	145 750	599 404	638 112	1 273 125	37 383
Orlando, FL MSA	1	1 558	385	46 511	1 616 375	27 502	54 195	666 941	4 639 740	3 552 072	8 259 760	524 246
Panama City, FL MSA	—	136	28	3 492	108 697	2 588	5 221	71 286	335 360	509 360	813 566	38 530
Pensacola, FL MSA	—	295	62	9 421	336 181	7 087	14 027	229 474	1 207 225	1 498 425	2 642 161	91 888
Punta Gorda, FL MSA	2	74	6	5074	13 833	362	683	7 383	38 960	38 674	77 742	1 839
Sarasota-Bradenton, FL MSA	1	658	134	18 553	559 742	12 648	23 319	295 596	1 128 007	1 816 971	2 936 123	158 603
Tallahassee, FL MSA	1	158	32	4 065	100 141	2 982	5 797	57 125	331 313	404 970	744 844	13 079
Tampa-St. Petersburg-Clearwater, FL MSA	1	2 577	639	76 607	2 227 347	50 377	100 032	1 143 831	6 363 906	6 479 947	12 748 661	515 253
West Palm Beach-Boca Raton, FL MSA	—	1 049	183	26 199	1 136 285	13 837	27 355	371 611	4 109 944	2 337 822	6 329 406	160 101
<b>Georgia</b>	<b>—</b>	<b>9 053</b>	<b>3 277</b>	<b>531 450</b>	<b>15 473 204</b>	<b>408 569</b>	<b>826 574</b>	<b>10 126 167</b>	<b>55 426 485</b>	<b>69 050 254</b>	<b>124 003 137</b>	<b>4 153 507</b>
Albany, GA MSA	—	97	45	9 046	320 284	7 427	15 817	236 412	1 923 467	2 129 916	4 048 857	309 009
Athens, GA MSA	—	151	52	10 960	274 612	8 803	18 234	197 014	687 858	964 944	1 646 286	100 928
Atlanta, GA MSA	1	4 373	1 397	189 343	6 326 860	134 107	273 352	3 733 541	22 710 811	27 294 853	49 593 323	1 439 380
Augusta-Aiken, GA-SC MSA	—	364	149	41 124	1 560 574	25 542	47 726	817 378	6 566 686	3 832 466	10 376 189	463 785
Augusta-Aiken, GA-SC MSA (GA Part)	—	237	98	19 084	619 348	13 651	26 818	375 719	3 038 301	2 744 758	5 786 515	161 885
Augusta-Aiken, GA-SC MSA (SC Part)	—	127	51	22 040	941 226	11 891	20 908	441 659	3 528 385	1 087 708	4 589 674	301 900
Chattanooga, TN-GA MSA	1	705	275	43 794	1 257 303	33 270	66 238	797 321	3 371 306	4 067 962	7 413 781	330 996
Chattanooga, TN-GA MSA (GA Part)	2	161	54	9 509	227 374	8 332	16 664	175 811	781 780	949 266	1 708 155	97 079
Chattanooga, TN-GA MSA (TN Part)	—	544	221	34 285	1 029 929	24 938	49 574	621 510	2 589 526	3 118 696	5 705 626	233 917
Columbus, GA-AL MSA	1	230	99	19 930	597 036	15 017	32 427	394 338	2 171 632	2 183 278	4 357 805	221 782
Columbus, GA-AL MSA (AL Part)	—	49	19	3 295	107 782	2 757	6 049	80 709	540 642	462 403	1 000 399	89 114
Columbus, GA-AL MSA (GA Part)	1	181	80	16 635	489 254	12 260	26 378	313 629	1 630 990	1 720 875	3 357 406	132 668
Macon, GA MSA	—	291	92	18 568	687 658	14 413	29 429	470 851	4 541 521	2 470 267	7 019 244	329 147
Savannah, GA MSA	—	227	65	14 606	608 602	10 380	18 128	397 248	1 769 025	3 521 812	5 325 814	201 723
<b>Hawaii *</b>	<b>3</b>	<b>919</b>	<b>159</b>	<b>15 093</b>	<b>404 629</b>	<b>9 891</b>	<b>18 343</b>	<b>231 349</b>	<b>1 261 303</b>	<b>1 939 948</b>	<b>3 189 892</b>	<b>100 669</b>
Honolulu, HI MSA	3	683	133	11 145	300 440	7 026	12 999	164 569	1 041 662	1 658 122	2 689 599	77 677
<b>Idaho</b>	<b>—</b>	<b>1 643</b>	<b>417</b>	<b>65 997</b>	<b>2 094 462</b>	<b>50 198</b>	<b>89 069</b>	<b>1 272 880</b>	<b>6 383 900</b>	<b>10 620 606</b>	<b>16 900 224</b>	<b>1 393 009</b>
Boise City, ID MSA	—	568	154	30 604	1 129 209	21 674	34 580	595 959	3 384 317	6 553 794	9 878 041	942 842
Pocatello, ID MSA	—	62	20	3 482	119 168	2 420	4 391	60 704	406 019	374 440	775 117	226 690
<b>Illinois</b>	<b>—</b>	<b>17 912</b>	<b>6 538</b>	<b>883 358</b>	<b>31 686 026</b>	<b>626 460</b>	<b>1 278 831</b>	<b>18 625 974</b>	<b>95 342 475</b>	<b>104 853 848</b>	<b>199 893 976</b>	<b>7 344 742</b>
Bloomington-Normal, IL MSA	—	112	38	8 388	357 729	6 751	12 986	276 349	975 020	2 882 082	3 870 266	84 896
Champaign-Urbana, IL MSA	—	150	53	10 431	281 804	7 998	14 988	197 248	1 145 183	1 473 248	2 653 103	71 858
Chicago-Gary-Kenosha, IL-IN-WI CMSA	1	14 049	5 180	657 756	24 662 571	455 113	938 434	14 041 438	72 716 057	73 153 686	145 571 118	6 064 259
Chicago-Gary-Kenosha, IL-IN-WI CMSA (IL Part)	1	13 277	4 882	598 848	21 895 860	410 541	843 698	12 036 965	64 141 788	61 024 127	124 914 067	5 010 461
Chicago-Gary-Kenosha, IL-IN-WI CMSA (IN Part)	—	568	216	49 382	2 370 470	37 247	79 555	1 723 019	7 685 363	10 974 522	18 615 686	907 012
Chicago-Gary-Kenosha, IL-IN-WI CMSA (WI Part)	—	204	82	9 526	396 241	7 325	15 181	281 454	888 906	1 155 037	2 041 365	146 786
Chicago, IL PMSA	1	13 163	4 832	592 007	21 635 171	405 714	832 802	11 878 767	63 235 899	59 679 947	122 684 296	4 878 534
Kankakee, IL PMSA	—	114	50	6 841	260 689	4 827	10 896	158 198	905 889	1 344 180	2 229 771	131 927
Davenport-Moline-Rock Island, IA-IL MSA	—	459	161	28 001	1 122 988	21 414	44 595	799 746	4 195 178	5 147 566	9 289 183	259 420
Davenport-Moline-Rock Island, IA-IL MSA (IL Part)	—	250	84	14 694	618 016	11 216	23 646	449 628	2 196 740	2 723 894	4 870 147	124 760
Davenport-Moline-Rock Island, IA-IL MSA (IA Part)	—	209	77	13 307	504 972	10 198	20 949	350 118	1 998 438	2 423 672	4 419 036	134 660
Decatur, IL MSA	—	134	45	11 616	479 406	8 240	16 177	319 733	2 182 892	3 833 751	6 114 166	193 557
Peoria-Pekin, IL MSA	—	349	142	23 610	995 414	16 669	33 682	627 643	3 605 637	4 048 366	7 552 085	231 442
Rockford, IL MSA	—	910	343	51 220	1 925 013	36 828	74 624	1 199 502	4 702 700	5 266 997	9 876 818	384 489
St. Louis, MO-IL MSA	—	3 314	1 127	170 114	6 558 090	115 252	234 735	3 805 941	20 995 472	28 056 848	51 423 291	1 440 412
St. Louis, MO-IL MSA (IL Part)	—	494	145	27 425	1 020 103	20 861	43 731	699 025	3 510 620	6 136 869	9 624 134	267 679
St. Louis, MO-IL MSA (MO Part)	—	2 820	982	142 689	5 537 987	94 391	191 004	3 106 916	17 484 852	21 919 979	41 799 157	1 172 733
Springfield, IL MSA	—	142	41	3 986	116 913	2 738	5 424	66 884	317 055	431 219	743 347	22 201

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>Indiana</b> .....	-	<b>9 279</b>	<b>3 928</b>	<b>625 684</b>	<b>22 163 782</b>	<b>477 158</b>	<b>978 646</b>	<b>14 919 136</b>	<b>67 173 341</b>	<b>75 629 502</b>	<b>142 182 844</b>	<b>5 525 986</b>
Bloomington, IN MSA .....	-	122	39	8 817	302 554	7 410	13 988	221 803	1 092 199	1 419 057	2 444 224	44 419
Chicago-Gary-Kenosha, IL-IN-WI CMSA .....	1	14 049	5 180	657 756	24 662 571	455 113	938 434	14 041 438	72 716 057	73 153 686	145 571 118	6 064 259
Chicago-Gary-Kenosha, IL-IN-WI CMSA (IL Part) .....	1	13 277	4 882	598 848	21 895 860	410 541	843 698	12 036 965	64 141 788	61 024 127	124 914 067	5 010 461
Chicago-Gary-Kenosha, IL-IN-WI CMSA (IN Part) .....	-	568	216	49 382	2 370 470	37 247	79 555	1 723 019	7 685 363	10 974 522	18 615 686	907 012
Chicago-Gary-Kenosha, IL-IN-WI CMSA (WI Part) .....	-	204	82	9 526	396 241	7 325	15 181	281 454	888 906	1 155 037	2 041 365	146 786
Gary, IN PMSA .....	-	568	216	49 382	2 370 470	37 247	79 555	1 723 019	7 685 363	10 974 522	18 615 686	907 012
<b>Cincinnati-Hamilton, OH-KY-IN CMSA</b> .....	-	<b>2 673</b>	<b>1 035</b>	<b>138 541</b>	<b>5 313 799</b>	<b>93 005</b>	<b>190 166</b>	<b>3 029 947</b>	<b>18 723 292</b>	<b>16 309 982</b>	<b>34 919 536</b>	<b>1 465 189</b>
Cincinnati-Hamilton, OH-KY-IN CMSA (IN Part) .....	-	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati-Hamilton, OH-KY-IN CMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati-Hamilton, OH-KY-IN CMSA (OH Part) .....	-	2 224	850	116 239	4 549 431	76 639	156 876	2 556 214	16 348 441	14 100 422	30 382 039	1 275 119
Cincinnati, OH-KY-IN PMSA .....	-	2 280	883	118 300	4 499 899	78 129	158 191	2 470 981	14 384 929	14 053 370	28 345 270	1 267 446
Cincinnati, OH-KY-IN PMSA (IN Part) .....	-	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati, OH-KY-IN PMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati, OH-KY-IN PMSA (OH Part) .....	-	1 831	698	95 998	3 735 531	61 763	124 901	1 997 248	12 010 078	11 843 810	23 807 773	1 077 376
Elkhart-Goshen, IN MSA .....	-	891	461	55 701	1 598 475	43 940	85 940	1 085 214	3 830 268	5 069 545	8 922 392	213 968
Evansville-Henderson, IN-KY MSA .....	-	432	173	31 008	1 111 124	22 049	46 953	684 236	4 561 702	4 420 113	8 936 859	317 633
Evansville-Henderson, IN-KY MSA (IN Part) .....	-	354	129	23 500	890 982	15 837	31 589	524 809	3 649 539	3 592 225	7 213 921	257 657
Evansville-Henderson, IN-KY MSA (KY Part) .....	-	78	44	7 508	220 142	6 212	15 364	159 427	912 163	827 888	1 722 938	59 976
Fort Wayne, IN MSA .....	-	954	432	69 400	2 349 084	52 182	107 643	1 546 263	6 484 921	8 874 172	15 317 208	442 140
Indianapolis, IN MSA .....	-	2 008	707	107 601	4 400 130	77 073	157 615	2 759 929	15 136 822	11 969 551	26 696 521	958 784
Kokomo, IN MSA .....	-	101	37	20 711	1 100 182	14 362	31 702	745 622	2 395 471	2 455 329	4 872 815	301 243
Lafayette, IN MSA .....	-	162	77	21 654	840 343	17 185	36 202	547 518	3 185 069	5 804 888	8 973 633	431 091
Louisville, KY-IN MSA .....	1	329	538	80 655	2 875 371	62 851	128 908	2 029 558	17 446 444	16 860 135	34 353 576	811 589
Louisville, KY-IN MSA (IN Part) .....	1	368	151	19 882	553 161	16 115	33 150	391 231	1 703 882	1 605 792	3 309 194	146 890
Louisville, KY-IN MSA (KY Part) .....	-	176	387	60 773	2 322 210	46 736	95 758	1 638 327	15 742 562	15 254 343	31 044 382	664 699
Muncie, IN MSA .....	-	961	77	9 972	402 577	7 525	15 244	264 102	882 849	879 486	1 764 474	68 058
South Bend, IN MSA .....	-	456	179	20 469	698 523	14 505	28 741	410 741	2 228 619	2 356 854	4 599 146	146 884
Terre Haute, IN MSA .....	-	181	72	10 684	377 272	8 126	16 066	254 024	1 479 721	1 437 640	2 922 413	144 254
<b>Iowa</b> .....	-	<b>3 743</b>	<b>1 407</b>	<b>236 865</b>	<b>7 604 137</b>	<b>177 032</b>	<b>356 074</b>	<b>4 942 866</b>	<b>28 615 467</b>	<b>34 116 111</b>	<b>62 511 051</b>	<b>1 972 637</b>
Cedar Rapids, IA MSA .....	1	239	95	22 877	935 016	11 730	22 747	388 409	3 617 005	2 811 906	6 376 141	212 737
Davenport-Moline-Rock Island, IA-IL MSA .....	-	459	161	28 001	1 122 988	21 414	44 595	799 746	4 195 178	5 147 566	9 289 183	259 420
Davenport-Moline-Rock Island, IA-IL MSA (IL Part) .....	-	250	84	14 694	618 016	11 216	23 646	449 628	2 196 740	2 723 894	4 870 147	124 760
Davenport-Moline-Rock Island, IA-IL MSA (IA Part) .....	-	209	77	13 307	504 972	10 198	20 949	350 118	1 998 438	2 423 672	4 419 036	134 660
Des Moines, IA MSA .....	-	476	155	22 736	771 328	16 401	32 487	476 346	2 484 539	3 411 575	5 842 298	147 657
Dubuque, IA MSA .....	-	132	64	10 647	386 245	7 659	15 950	247 477	1 386 040	1 693 553	3 066 896	54 331
Iowa City, IA MSA .....	-	89	14	3 639	121 075	2 940	6 165	89 497	1 857 629	643 328	2 510 397	55 145
Omaha, NE-IA MSA .....	1	707	227	34 548	1 093 396	26 175	53 261	737 275	3 996 038	4 816 581	8 769 787	300 220
Omaha, NE-IA MSA (IA Part) .....	1	59	26	4 109	113 186	3 285	6 422	84 571	429 356	453 987	888 662	29 180
Omaha, NE-IA MSA (NE Part) .....	-	648	201	30 439	980 210	22 890	46 839	652 704	3 566 682	4 362 594	7 881 125	271 040
Sioux City, IA-NE MSA .....	-	136	73	11 977	300 929	9 256	18 388	207 528	827 861	3 683 577	4 502 457	113 114
Sioux City, IA-NE MSA (IA Part) .....	-	113	59	5 107	148 296	4 524	9 597	13 533	68 361	116 285	216 543	99 373
Sioux City, IA-NE MSA (NE Part) .....	-	23	14	1 870	152 633	4 723	8 891	13 944	60 500	96 292	137 914	13 741
Waterloo-Cedar Falls, IA MSA .....	-	165	70	13 542	555 720	9 967	20 832	382 116	2 258 387	2 878 327	5 133 098	65 832
<b>Kansas</b> .....	-	<b>3 296</b>	<b>1 140</b>	<b>193 002</b>	<b>6 513 519</b>	<b>140 573</b>	<b>280 314</b>	<b>4 039 225</b>	<b>18 987 474</b>	<b>29 081 270</b>	<b>47 080 651</b>	<b>1 458 041</b>
Kansas City, MO-KS MSA .....	-	2 193	752	94 161	3 314 043	65 772	130 041	2 031 422	14 782 859	16 278 842	30 959 090	775 308
Kansas City, MO-KS MSA (KS Part) .....	-	879	317	36 923	1 334 679	26 381	53 982	842 771	4 731 631	6 753 889	11 437 826	346 343
Kansas City, MO-KS MSA (MO Part) .....	-	1 314	435	57 238	1 979 364	39 391	76 059	1 188 651	10 051 228	9 524 953	19 521 264	428 965
Lawrence, KS MSA .....	-	76	25	4 240	119 989	3 213	6 581	76 896	395 743	350 047	731 151	42 762
Topeka, KS MSA .....	-	139	48	7 700	263 680	6 313	12 589	195 272	937 141	851 179	1 790 460	43 659
Wichita, KS MSA .....	-	698	258	66 053	2 710 323	44 111	81 712	1 492 533	7 120 392	6 904 932	13 073 790	492 656
<b>Kentucky</b> .....	-	<b>4 205</b>	<b>1 707</b>	<b>288 541</b>	<b>9 197 961</b>	<b>224 434</b>	<b>455 748</b>	<b>6 249 883</b>	<b>39 062 786</b>	<b>48 696 757</b>	<b>87 515 235</b>	<b>3 426 692</b>
<b>Cincinnati-Hamilton, OH-KY-IN CMSA</b> .....	-	<b>2 673</b>	<b>1 035</b>	<b>138 541</b>	<b>5 313 799</b>	<b>93 005</b>	<b>190 166</b>	<b>3 029 947</b>	<b>18 723 292</b>	<b>16 309 982</b>	<b>34 919 536</b>	<b>1 465 189</b>
Cincinnati-Hamilton, OH-KY-IN CMSA (IN Part) .....	-	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati-Hamilton, OH-KY-IN CMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati-Hamilton, OH-KY-IN CMSA (OH Part) .....	-	2 224	850	116 239	4 549 431	76 639	156 876	2 556 214	16 348 441	14 100 422	30 382 039	1 275 119
Cincinnati, OH-KY-IN PMSA .....	-	2 280	883	118 300	4 499 899	78 129	158 191	2 470 981	14 384 929	14 053 370	28 345 270	1 267 446
Cincinnati, OH-KY-IN PMSA (IN Part) .....	-	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati, OH-KY-IN PMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati, OH-KY-IN PMSA (OH Part) .....	-	1 831	698	95 998	3 735 531	61 763	124 901	1 997 248	12 010 078	11 843 810	23 807 773	1 077 376
Clarksville-Hopkinsville, TN-KY MSA .....	-	138	55	10 994	298 011	9 129	18 449	215 146	1 113 586	1 069 307	2 177 503	85 850
Clarksville-Hopkinsville, TN-KY MSA (KY Part) .....	-	55	23	4 431	114 377	3 597	7 428	78 972	329 689	446 566	772 324	22 875
Clarksville-Hopkinsville, TN-KY MSA (TN Part) .....	-	83	32	6 563	183 634	5 532	11 021	136 174	783 897	622 741	1 405 179	62 975

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>Kentucky—Con.</b>												
Evansville-Henderson, IN-KY MSA . . .	—	432	173	31 008	1 111 124	22 049	46 953	684 236	4 561 702	4 420 113	8 936 859	317 633
Evansville-Henderson, IN-KY MSA (IN Part) . . . . .	—	354	129	23 500	890 982	15 837	31 589	524 809	3 649 539	3 592 225	7 213 921	257 657
Evansville-Henderson, IN-KY MSA (KY Part) . . . . .	—	78	44	7 508	220 142	6 212	15 364	159 427	912 163	827 888	1 722 938	59 976
Huntington-Ashland, WV-KY-OH MSA . . . . .	—	260	101	14 777	540 084	11 318	23 260	395 271	2 570 822	3 490 462	6 061 632	236 732
Huntington-Ashland, WV-KY-OH MSA (KY Part) . . . . .	—	72	31	5 384	232 596	4 312	9 013	180 357	1 212 793	2 348 635	3 550 120	144 094
Huntington-Ashland, WV-KY-OH MSA (OH Part) . . . . .	1	44	12	1 969	65 020	1 462	3 100	46 790	530 855	459 192	998 054	33 568
Huntington-Ashland, WV-KY-OH MSA (WV Part) . . . . .	1	144	58	7 424	242 468	5 544	11 147	168 124	827 174	682 635	1 513 458	59 070
Lexington, KY MSA . . . . .	—	549	219	44 197	1 670 717	31 126	64 263	967 163	5 326 642	10 656 586	15 891 444	927 126
Louisville, KY-IN MSA . . . . .	—	329	538	80 655	2 875 371	62 851	128 908	2 029 558	17 446 444	16 860 135	34 353 576	811 589
Louisville, KY-IN MSA (IN Part) . . . . .	1	368	151	19 882	553 161	16 115	33 150	391 231	1 703 882	1 605 792	3 309 194	146 890
Louisville, KY-IN MSA (KY Part) . . . . .	—	961	387	60 773	2 322 210	46 736	95 758	1 638 327	15 742 562	15 254 343	31 044 382	664 699
Owensboro, KY MSA . . . . .	—	114	52	8 011	276 755	6 002	12 740	187 336	1 210 450	1 854 403	3 041 870	408 813
<b>Louisiana . . . . .</b>	<b>—</b>	<b>3 536</b>	<b>1 164</b>	<b>164 938</b>	<b>6 025 203</b>	<b>122 970</b>	<b>256 824</b>	<b>3 949 080</b>	<b>27 463 050</b>	<b>51 043 098</b>	<b>78 333 959</b>	<b>3 513 342</b>
Alexandria, LA MSA . . . . .	—	73	24	3 179	102 994	2 201	4 177	59 878	722 200	452 127	1 165 869	43 644
Baton Rouge, LA MSA . . . . .	—	531	163	21 316	987 387	14 181	31 130	561 915	5 507 224	10 584 427	16 210 781	858 706
Houma, LA MSA . . . . .	1	185	52	6 454	202 256	5 144	10 852	145 583	436 885	526 273	963 629	37 334
Lafayette, LA MSA . . . . .	2	361	103	13 048	307 497	10 383	18 834	208 689	1 484 538	1 839 176	3 301 253	68 220
Lake Charles, LA MSA . . . . .	—	134	50	11 274	542 360	8 113	18 366	344 355	2 722 159	7 164 018	9 857 352	644 988
Monroe, LA MSA . . . . .	—	151	61	8 110	284 637	6 125	12 650	197 135	856 601	1 121 245	1 975 838	107 751
New Orleans, LA MSA . . . . .	—	1 020	302	43 523	1 666 145	30 312	64 399	1 065 208	8 433 152	17 937 343	26 300 379	675 941
Shreveport-Bossier City, LA MSA . . . . .	—	336	125	16 907	578 186	13 119	26 818	467 643	1 948 765	3 494 200	5 396 471	193 360
<b>Maine . . . . .</b>	<b>1</b>	<b>1 809</b>	<b>510</b>	<b>81 279</b>	<b>2 562 912</b>	<b>62 022</b>	<b>120 642</b>	<b>1 736 601</b>	<b>6 698 567</b>	<b>7 386 714</b>	<b>14 066 822</b>	<b>592 362</b>
Bangor, ME MSA . . . . .	1	93	32	4 070	124 820	3 180	6 473	91 398	430 089	398 476	824 665	55 004
Boston-Worcester-Lawrence, MA-NH-ME-CT CMA . . . . .	1	8 825	3 057	393 348	15 697 919	240 852	484 139	7 447 978	46 573 198	34 225 382	80 768 743	3 632 504
Boston-Worcester-Lawrence, MA-NH-ME-CT CMA (CT Part) . . . . .	—	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Boston-Worcester-Lawrence, MA-NH-ME-CT CMA (ME Part) . . . . .	—	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Boston-Worcester-Lawrence, MA-NH-ME-CT CMA (MA Part) . . . . .	1	7 433	2 609	330 855	13 447 729	198 608	401 705	6 192 192	38 216 143	27 526 320	65 701 859	3 128 398
Boston-Worcester-Lawrence, MA-NH-ME-CT CMA (NH Part) . . . . .	1	1 332	433	60 885	2 198 637	41 125	79 937	1 223 919	8 228 762	6 410 610	14 647 636	496 628
Portsmouth-Rochester, NH-ME PMSA . . . . .	—	344	106	16 421	528 623	10 863	21 193	289 541	2 458 869	2 509 219	4 937 404	109 923
Portsmouth-Rochester, NH-ME PMSA (ME Part) . . . . .	—	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Portsmouth-Rochester, NH-ME PMSA (NH Part) . . . . .	—	303	98	15 360	497 427	10 129	19 540	267 944	2 374 502	2 249 480	4 589 400	105 095
Lewiston-Auburn, ME MSA . . . . .	2	167	64	7 787	218 426	5 604	11 167	140 885	688 642	495 225	1 180 982	48 615
Portland, ME MSA . . . . .	1	344	85	12 873	445 471	9 061	19 404	267 763	1 085 790	929 913	2 011 282	69 123
<b>Maryland . . . . .</b>	<b>1</b>	<b>3 986</b>	<b>1 204</b>	<b>163 145</b>	<b>5 810 016</b>	<b>109 090</b>	<b>218 330</b>	<b>3 233 951</b>	<b>18 705 455</b>	<b>17 772 765</b>	<b>36 442 590</b>	<b>1 462 124</b>
Cumberland, MD-WV MSA . . . . .	—	83	29	5 307	179 632	4 034	7 762	120 354	498 219	409 274	922 229	191 987
Cumberland, MD-WV MSA (MD Part) . . . . .	—	67	21	4 169	139 197	3 206	6 128	95 607	396 422	374 661	785 922	D
Cumberland, MD-WV MSA (WV Part) . . . . .	—	16	8	1 138	40 435	828	1 634	24 747	101 797	34 613	136 307	D
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMA . . . . .	1	7 550	2 502	291 975	11 050 670	196 167	395 431	6 199 918	35 695 230	42 640 935	78 071 701	3 136 635
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMA (DE Part) . . . . .	—	455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMA (MD Part) . . . . .	—	55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMA (NJ Part) . . . . .	1	1 927	640	73 612	2 650 100	51 350	101 018	1 557 264	8 150 926	9 963 050	18 190 369	508 134
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMA (PA Part) . . . . .	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Wilmington-Newark, DE-MD PMSA . . . . .	—	510	171	25 225	1 125 072	16 562	35 163	659 378	3 424 237	6 033 481	9 389 151	462 746
Wilmington-Newark, DE-MD PMSA (DE Part) . . . . .	—	455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Wilmington-Newark, DE-MD PMSA (MD Part) . . . . .	—	55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
Washington-Baltimore, DC-MD-VA-WV CMA . . . . .	1	4 964	1 385	179 493	6 686 803	117 732	235 748	3 603 434	20 487 360	18 555 619	38 984 161	1 498 540
Washington-Baltimore, DC-MD-VA-WV CMA (DC Part) . . . . .	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington-Baltimore, DC-MD-VA-WV CMA (MD Part) . . . . .	1	3 473	1 030	137 668	5 116 580	90 053	180 724	2 793 587	16 366 918	15 077 589	31 402 048	1 135 243
Washington-Baltimore, DC-MD-VA-WV CMA (VA Part) . . . . .	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington-Baltimore, DC-MD-VA-WV CMA (WV Part) . . . . .	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
Baltimore, MD PMSA . . . . .	1	2 168	665	92 740	3 414 528	61 925	124 085	1 950 106	11 602 465	10 981 201	22 606 213	689 148
Hagerstown, MD PMSA . . . . .	—	147	55	9 173	294 202	7 154	14 311	217 933	956 824	1 001 979	1 940 420	79 422
Washington, DC-MD-VA-WV PMSA . . . . .	1	2 649	665	77 580	2 978 073	48 653	97 352	1 435 395	7 928 071	6 572 439	14 437 528	729 970
Washington, DC-MD-VA-WV PMSA (DC Part) . . . . .	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	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)	
	E¹	Total	With 20 employees or more	Number²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>Maryland—Con.</b>												
Washington–Baltimore, DC–MD–VA–WV CMSA—Con.												
Washington, DC–MD–VA–WV PMSA (MD Part)	1	1 158	310	35 755	1 407 850	20 974	42 328	625 548	3 807 629	3 094 409	6 855 415	366 673
Washington, DC–MD–VA–WV PMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington, DC–MD–VA–WV PMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
<b>Massachusetts</b>	<b>1</b>	<b>9 534</b>	<b>3 295</b>	<b>415 224</b>	<b>16 274 205</b>	<b>256 775</b>	<b>520 200</b>	<b>7 737 438</b>	<b>45 132 888</b>	<b>33 561 345</b>	<b>78 612 764</b>	<b>3 635 273</b>
Barnstable–Yarmouth, MA MSA	2	152	13	1 667	52 061	998	1 624	22 655	163 118	81 102	242 017	9 920
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA	1	8 825	3 057	393 348	15 697 919	240 852	484 139	7 447 978	46 573 198	34 225 382	80 768 743	3 632 504
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA (CT Part)	—	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA (ME Part)	—	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA (MA Part)	1	7 433	2 609	330 855	13 447 729	198 608	401 705	6 192 192	38 216 143	27 526 320	65 701 859	3 128 398
Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA (NH Part)	1	1 332	433	60 885	2 198 637	41 125	79 937	1 223 919	8 228 762	6 410 610	14 647 636	496 628
Boston, MA–NH PMSA	1	4 853	1 635	207 224	8 689 113	119 931	243 386	3 861 400	23 827 614	16 996 980	40 778 668	1 871 759
Boston, MA–NH PMSA (MA Part)	1	4 818	1 621	205 977	8 641 717	119 081	241 982	3 830 478	23 738 664	16 896 533	40 588 834	1 864 554
Boston, MA–NH PMSA (NH Part)	4	35	14	1 247	47 396	850	1 404	30 922	88 950	100 447	189 834	7 205
Brockton, MA PMSA	1	375	123	11 201	384 240	7 239	14 218	197 546	910 110	659 218	1 559 397	50 442
Fitchburg–Leominster, MA PMSA	3	333	120	14 092	502 995	9 744	20 196	278 587	1 601 900	1 330 079	2 937 874	133 995
Lawrence, MA–NH PMSA	—	614	221	32 335	1 293 734	20 815	41 215	667 399	6 650 315	4 087 376	10 726 992	497 169
Lawrence, MA–NH PMSA (MA Part)	—	389	160	25 972	1 082 081	16 696	33 198	554 503	4 316 177	3 054 611	7 364 993	465 556
Lawrence, MA–NH PMSA (NH Part)	—	225	61	6 363	211 653	4 119	8 017	112 896	2 334 138	1 032 765	3 361 999	31 613
Lowell, MA–NH PMSA	1	459	175	23 111	964 725	11 830	23 471	363 705	2 973 313	1 985 235	4 946 373	240 200
Lowell, MA–NH PMSA (MA Part)	1	442	174	22 850	957 881	11 606	23 104	358 622	2 959 079	1 969 794	4 917 167	D
Lowell, MA–NH PMSA (NH Part)	1	17	1	261	6 844	224	367	5 083	14 234	15 441	29 206	D
New Bedford, MA PMSA	1	240	83	12 531	370 131	9 726	19 449	245 972	988 846	793 642	1 810 508	81 417
Worcester, MA–CT PMSA	1	855	335	38 779	1 529 041	24 901	50 402	736 934	3 745 293	2 851 156	6 594 330	299 627
Worcester, MA–CT PMSA (CT Part)	—	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Worcester, MA–CT PMSA (MA Part)	1	836	328	38 232	1 508 684	24 516	49 558	726 664	3 701 367	2 822 443	6 523 086	296 977
Pittsfield, MA MSA	—	125	43	6 633	275 788	3 603	7 521	115 468	660 938	483 093	1 138 706	56 942
Providence–Fall River–Warwick, RI–MA MSA	1	2 910	858	96 793	2 899 987	69 211	138 639	1 646 992	6 804 190	6 178 653	13 049 963	520 545
Providence–Fall River–Warwick, RI–MA MSA (MA Part)	1	505	191	25 848	781 318	19 062	38 883	438 567	1 627 592	1 516 371	3 174 216	137 410
Providence–Fall River–Warwick, RI–MA MSA (RI Part)	1	2 405	667	70 945	2 118 669	50 149	99 756	1 208 425	5 176 598	4 662 282	9 875 747	383 135
Springfield, MA MSA	—	959	342	38 532	1 378 792	26 457	54 340	756 307	3 669 794	3 286 220	6 902 179	231 086
<b>Michigan</b>	<b>—</b>	<b>16 005</b>	<b>5 716</b>	<b>828 396</b>	<b>34 209 572</b>	<b>626 881</b>	<b>1 299 481</b>	<b>23 377 382</b>	<b>93 366 860</b>	<b>120 632 388</b>	<b>213 996 415</b>	<b>9 397 575</b>
Benton Harbor, MI MSA	1	396	159	16 918	519 760	12 401	24 869	330 872	1 228 442	1 125 094	2 341 937	103 505
Detroit–Ann Arbor–Flint, MI CMSA	—	8 619	2 966	429 142	19 416 147	329 012	691 219	13 720 221	55 030 886	79 791 565	134 806 642	5 409 323
Ann Arbor, MI PMSA	—	838	319	48 484	2 112 771	37 091	77 317	1 472 633	4 967 863	6 788 217	11 791 317	515 864
Detroit, MI PMSA	—	7 426	2 532	346 244	15 558 749	263 448	556 738	10 858 826	46 463 001	65 302 261	111 763 996	4 708 992
Flint, MI PMSA	—	355	115	34 414	1 744 627	28 473	57 164	1 388 762	3 600 022	7 701 087	11 251 329	184 467
Grand Rapids–Muskegon–Holland, MI MSA	—	2 326	940	150 001	5 629 319	106 965	219 007	3 375 719	15 201 494	13 230 290	28 403 783	1 367 784
Jackson, MI MSA	—	349	138	12 011	413 358	8 563	17 231	240 743	1 071 093	1 156 474	2 240 530	88 962
Kalamazoo–Battle Creek, MI MSA	—	746	285	43 415	1 568 307	32 271	65 258	1 045 010	4 650 372	4 865 332	9 561 297	555 483
Lansing–East Lansing, MI MSA	—	428	144	29 104	1 470 820	22 747	47 126	1 075 704	2 369 459	6 492 102	8 892 841	515 690
Saginaw–Bay City–Midland, MI MSA	—	459	145	32 386	1 697 413	24 420	54 409	1 229 054	3 754 693	4 304 511	8 049 701	529 580
<b>Minnesota</b>	<b>—</b>	<b>8 064</b>	<b>2 709</b>	<b>379 938</b>	<b>13 069 217</b>	<b>257 910</b>	<b>513 688</b>	<b>7 222 024</b>	<b>36 567 010</b>	<b>39 525 947</b>	<b>75 988 847</b>	<b>3 186 779</b>
Duluth–Superior, MN–WI MSA	1	282	70	6 797	199 420	4 933	9 566	126 852	582 880	769 644	1 363 658	151 257
Duluth–Superior, MN–WI MSA (MN Part)	1	226	56	5 254	154 015	3 717	7 285	94 958	454 809	404 450	863 487	141 544
Duluth–Superior, MN–WI MSA (WI Part)	—	56	14	1 543	45 405	1 216	2 281	31 894	128 071	365 194	500 171	9 713
Fargo–Moorhead, ND–MN MSA	1	219	79	7 974	208 984	5 941	11 557	133 805	682 816	1 056 572	1 740 443	57 096
Fargo–Moorhead, ND–MN MSA (MN Part)	—	38	11	1 225	35 699	999	2 021	27 458	57 541	174 280	229 403	10 969
Fargo–Moorhead, ND–MN MSA (ND Part)	1	181	68	6 749	173 285	4 942	9 536	106 347	625 275	882 292	1 511 040	46 127
Grand Forks, ND–MN MSA	—	92	25	3 087	75 293	2 494	4 626	54 934	275 369	277 675	551 735	17 554
Grand Forks, ND–MN MSA (MN Part)	—	40	12	1 350	36 299	1 107	2 064	26 606	130 024	168 604	300 278	4 252
Grand Forks, ND–MN MSA (ND Part)	—	52	13	1 737	38 994	1 387	2 562	28 328	145 345	109 071	251 457	13 302
La Crosse, WI–MN MSA	—	183	61	10 168	315 155	7 173	14 345	184 176	525 298	881 088	1 410 344	50 860
La Crosse, WI–MN MSA (MN Part)	—	23	6	497	10 459	338	693	6 452	28 870	21 356	50 147	3 062
La Crosse, WI–MN MSA (WI Part)	—	160	55	9 671	304 696	6 835	13 652	177 724	496 428	859 732	1 360 197	47 798
Minneapolis–St. Paul, MN–WI MSA	—	5 327	1 817	232 048	8 713 399	147 763	296 929	4 493 367	22 908 126	21 442 082	44 382 001	2 007 807
Minneapolis–St. Paul, MN–WI MSA (MN Part)	—	5 137	1 754	225 239	8 514 358	142 661	287 273	4 370 086	22 415 942	20 892 684	43 338 324	1 962 526
Minneapolis–St. Paul, MN–WI MSA (WI Part)	—	190	63	6 809	199 041	5 102	9 656	123 281	492 184	549 398	1 043 677	45 281
Rochester, MN MSA	—	77	30	10 477	482 127	4 949	10 067	126 924	1 040 943	2 133 306	3 085 395	112 261
St. Cloud, MN MSA	—	271	91	15 453	440 413	12 160	22 876	305 449	1 102 886	1 405 853	2 515 953	80 627

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>Mississippi</b> .....	-	<b>2 996</b>	<b>1 274</b>	<b>227 001</b>	<b>5 580 639</b>	<b>182 043</b>	<b>360 610</b>	<b>3 891 078</b>	<b>17 184 299</b>	<b>22 608 005</b>	<b>39 821 220</b>	<b>1 407 858</b>
Biloxi-Gulfport-Pascagoula, MS MSA.....	-	260	81	21 327	685 875	13 864	28 108	409 362	2 460 709	3 403 714	5 849 447	294 076
Hattiesburg, MS MSA.....	1	104	34	5 909	132 302	4 404	8 231	84 991	432 786	698 233	1 152 529	45 647
Jackson, MS MSA.....	-	390	138	19 582	517 273	15 347	30 262	348 809	1 719 633	2 206 075	3 942 927	138 166
Memphis, TN-AR-MS MSA.....	-	1 149	471	57 634	1 854 726	40 058	80 976	1 065 814	6 192 353	8 430 963	14 703 789	498 743
Memphis, TN-AR-MS MSA (AR Part).....	-	44	22	2 272	54 786	1 784	3 491	35 491	216 773	397 575	609 651	19 486
Memphis, TN-AR-MS MSA (MS Part).....	1	129	61	6 977	207 151	5 165	11 188	132 937	553 437	786 858	1 339 191	39 128
Memphis, TN-AR-MS MSA (TN Part).....	-	976	388	48 385	1 592 789	33 109	66 297	897 386	5 422 143	7 246 530	12 754 947	440 129
<b>Missouri</b> .....	-	<b>7 477</b>	<b>2 482</b>	<b>367 549</b>	<b>11 551 114</b>	<b>267 979</b>	<b>526 652</b>	<b>7 135 310</b>	<b>43 071 878</b>	<b>47 323 830</b>	<b>92 745 261</b>	<b>2 656 471</b>
Columbia, MO MSA.....	-	86	26	5 655	163 850	4 406	8 961	106 588	852 685	735 118	1 586 017	77 970
Joplin, MO MSA.....	-	261	95	16 219	395 838	12 989	27 864	296 486	1 190 644	1 637 492	2 847 447	128 504
Kansas City, MO-KS MSA.....	-	2 193	752	94 161	3 314 043	65 772	130 041	2 031 422	14 782 859	16 278 842	30 959 090	775 308
Kansas City, MO-KS MSA (KS Part).....	-	879	317	36 923	1 334 679	26 381	53 982	842 771	4 731 631	6 753 889	11 437 826	346 343
Kansas City, MO-KS MSA (MO Part).....	-	1 314	435	57 238	1 979 364	39 391	76 059	1 188 651	10 051 228	9 524 953	19 521 264	428 965
St. Joseph, MO MSA.....	-	103	49	7 382	235 422	5 701	11 158	159 263	861 057	1 444 396	2 296 699	81 086
St. Louis, MO-IL MSA.....	-	3 314	1 127	170 114	6 558 090	115 252	234 735	3 805 941	20 995 472	28 056 848	51 423 291	1 440 412
St. Louis, MO-IL MSA (IL Part).....	-	494	145	27 425	1 020 103	20 861	43 731	699 025	3 510 620	6 136 869	9 624 134	267 679
St. Louis, MO-IL MSA (MO Part).....	-	2 820	982	142 689	5 537 987	94 391	191 004	3 106 916	17 484 852	21 919 979	41 799 157	1 172 733
Springfield, MO MSA.....	-	513	144	21 941	560 874	16 554	30 608	364 071	1 849 767	2 132 647	3 961 642	97 154
<b>Montana</b> .....	-	<b>1 158</b>	<b>178</b>	<b>19 478</b>	<b>557 878</b>	<b>14 884</b>	<b>27 386</b>	<b>392 709</b>	<b>1 876 897</b>	<b>3 105 758</b>	<b>5 004 527</b>	<b>150 462</b>
Billings, MT MSA.....	-	181	27	3 108	108 094	2 086	4 005	67 366	556 227	1 218 098	1 787 381	32 445
Great Falls, MT MSA.....	1	80	13	925	23 851	691	1 252	15 435	58 101	167 480	228 464	12 999
<b>Nebraska</b> .....	-	<b>1 958</b>	<b>610</b>	<b>106 556</b>	<b>3 034 134</b>	<b>83 975</b>	<b>172 999</b>	<b>2 129 405</b>	<b>10 460 265</b>	<b>17 459 386</b>	<b>27 939 376</b>	<b>721 776</b>
Lincoln, NE MSA.....	-	267	92	15 322	502 303	11 577	22 413	323 906	1 965 753	1 787 670	3 857 936	101 575
Omaha, NE-IA MSA.....	-	707	227	34 548	1 093 396	26 175	53 261	737 275	3 996 038	4 816 581	8 769 787	300 220
Omaha, NE-IA MSA (IA Part).....	1	59	26	4 109	113 186	3 285	6 422	84 571	429 356	453 987	888 662	29 180
Omaha, NE-IA MSA (NE Part).....	-	648	201	30 439	980 210	22 890	46 839	652 704	3 566 682	4 362 594	7 881 125	271 040
Sioux City, IA-NE MSA.....	-	136	73	11 977	300 929	9 256	18 388	207 528	827 861	3 683 577	4 502 457	113 114
Sioux City, IA-NE MSA (IA Part).....	-	113	59	i	D	D	D	D	D	D	D	99 373
Sioux City, IA-NE MSA (NE Part).....	-	23	14	i	D	D	D	D	D	D	D	13 741
<b>Nevada</b> .....	1	<b>1 610</b>	<b>403</b>	<b>37 473</b>	<b>1 164 476</b>	<b>26 040</b>	<b>51 573</b>	<b>670 749</b>	<b>3 260 969</b>	<b>3 025 752</b>	<b>6 297 518</b>	<b>311 537</b>
Las Vegas, NV-AZ MSA.....	1	988	223	21 428	631 147	15 967	31 279	408 053	2 019 046	1 852 744	3 890 837	130 611
Las Vegas, NV-AZ MSA (AZ Part).....	-	156	33	3 807	85 202	3 166	5 735	60 768	346 634	398 926	760 366	17 181
Las Vegas, NV-AZ MSA (NV Part).....	1	832	190	17 621	545 945	12 801	25 544	347 285	1 672 412	1 453 818	3 130 471	113 430
Reno, NV MSA.....	2	417	122	11 440	359 471	7 484	14 595	183 230	920 368	1 003 100	1 927 496	131 775
<b>New Hampshire</b> .....	1	<b>2 321</b>	<b>751</b>	<b>97 928</b>	<b>3 318 423</b>	<b>68 228</b>	<b>134 236</b>	<b>1 920 807</b>	<b>11 129 674</b>	<b>8 528 850</b>	<b>19 663 103</b>	<b>700 466</b>
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA.....	1	8 825	3 057	393 348	15 697 919	240 852	484 139	7 447 978	46 573 198	34 225 382	80 768 743	3 632 504
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (CT Part).....	-	19	7	547	20 357	385	844	10 270	43 926	28 713	71 244	2 650
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (ME Part).....	-	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (MA Part).....	1	7 433	2 609	330 855	13 447 729	198 608	401 705	6 192 192	38 216 143	27 526 320	65 701 859	3 128 398
Boston-Worcester-Lawrence, MA-NH-ME-CT CMSA (NH Part).....	1	1 332	433	60 885	2 198 637	41 125	79 937	1 223 919	8 228 762	6 410 610	14 647 636	496 628
Boston, MA-NH PMSA.....	1	4 853	1 635	207 224	8 689 113	119 931	243 386	3 861 400	23 827 614	16 996 980	40 778 668	1 871 759
Boston, MA-NH PMSA (MA Part).....	1	4 818	1 621	205 977	8 641 717	119 081	241 982	3 830 478	23 738 664	16 896 533	40 588 834	1 864 554
Boston, MA-NH PMSA (NH Part).....	4	35	14	1 247	47 396	850	1 404	30 922	88 950	100 447	189 834	7 205
Lawrence, MA-NH PMSA.....	-	614	221	32 335	1 293 734	20 815	41 215	667 399	6 650 315	4 087 376	10 726 992	497 169
Lawrence, MA-NH PMSA (MA Part).....	-	389	160	25 972	1 082 081	16 696	33 198	554 503	4 316 177	3 054 611	7 364 993	465 556
Lawrence, MA-NH PMSA (NH Part).....	-	225	61	6 363	211 653	4 119	8 017	112 896	2 334 138	1 032 765	3 361 999	31 613
Lowell, MA-NH PMSA.....	1	459	175	23 111	964 725	11 830	23 471	363 705	2 973 313	1 985 235	4 946 373	240 200
Lowell, MA-NH PMSA (MA Part).....	1	442	174	22 850	957 881	11 606	23 104	358 622	2 959 079	1 969 794	4 917 167	D
Lowell, MA-NH PMSA (NH Part).....	1	17	1	261	6 844	224	367	5 083	14 234	15 441	29 206	D
Manchester, NH PMSA.....	2	310	100	12 784	437 406	8 757	17 808	235 272	1 008 156	1 090 283	2 099 820	106 567
Nashua, NH PMSA.....	1	442	159	24 870	997 911	17 046	32 801	571 802	2 408 782	1 922 194	4 377 377	241 405
Portsmouth-Rochester, NH-ME PMSA.....	-	344	106	16 421	528 623	10 863	21 193	289 541	2 458 869	2 509 219	4 937 404	109 923
Portsmouth-Rochester, NH-ME PMSA (ME Part).....	-	41	8	1 061	31 196	734	1 653	21 597	S	S	348 004	4 828
Portsmouth-Rochester, NH-ME PMSA (NH Part).....	-	303	98	15 360	497 427	10 129	19 540	267 944	2 374 502	2 249 480	4 589 400	105 095
<b>New Jersey</b> .....	1	<b>11 788</b>	<b>3 809</b>	<b>407 272</b>	<b>15 314 686</b>	<b>274 363</b>	<b>555 738</b>	<b>8 112 739</b>	<b>49 432 983</b>	<b>46 768 915</b>	<b>96 179 751</b>	<b>3 096 106</b>
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA.....	1	29 558	8 200	830 950	29 097 207	553 321	1 093 927	14 901 482	87 014 682	74 718 992	161 783 475	5 629 850
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (CT Part).....	1	3 133	1 012	125 723	5 087 546	76 929	159 190	2 449 285	15 604 628	10 833 670	26 371 814	1 001 942
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NJ Part).....	1	9 861	3 169	333 660	12 664 586	223 013	454 720	6 555 475	41 282 057	36 805 865	77 989 382	2 587 972
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NY Part).....	2	16 536	4 015	371 232	11 334 976	253 202	479 752	5 893 542	30 102 207	26 976 237	57 285 948	2 036 548
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (PA Part).....	-	28	4	335	10 099	177	265	3 180	25 790	103 220	136 331	3 388
Bergen-Passaic, NJ PMSA.....	1	2 860	960	93 796	3 434 262	63 434	127 768	1 751 190	9 233 171	7 489 921	16 819 622	559 623

See footnotes at end of table.

Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>New Jersey—Con.</b>												
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA—Con.												
Jersey City, NJ PMSA	2	972	278	25 882	769 361	17 827	34 865	411 012	1 993 686	2 052 521	4 089 220	91 385
Middlesex-Somerset-Hunterdon, NJ PMSA	1	1 527	566	70 920	2 959 648	45 870	95 231	1 511 295	9 561 194	9 718 955	19 346 921	822 324
Newmouth-Ocean, NJ PMSA	2	894	196	19 626	592 329	13 913	26 835	330 473	1 626 977	1 599 414	3 218 455	96 152
Newark, NJ PMSA	1	3 256	1 062	109 899	4 329 273	73 616	152 837	2 259 757	17 614 987	14 782 480	32 088 594	939 722
Trenton, NJ PMSA	3	352	107	13 537	579 713	8 353	17 184	291 748	1 252 042	1 162 574	2 426 570	78 766
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA	1	7 550	2 502	291 975	11 050 670	196 167	395 431	6 199 918	35 695 230	42 640 935	78 071 701	3 136 635
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (DE Part)		455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (MD Part)		55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (NJ Part)	1	1 927	640	73 612	2 650 100	51 350	101 018	1 557 264	8 150 926	9 963 050	18 190 369	508 134
Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD CMSA (PA Part)	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Atlantic-Cape May, NJ PMSA	2	242	51	5 740	162 156	4 466	8 371	105 552	390 900	325 574	710 662	17 895
Philadelphia, PA-NJ PMSA	1	6 588	2 190	248 025	9 365 103	165 062	331 890	5 157 785	30 901 629	35 353 981	66 075 762	2 566 297
Philadelphia, PA-NJ PMSA (NJ Part)		1 475	499	54 887	2 089 605	36 807	72 640	1 174 509	6 781 562	8 709 577	15 583 581	400 542
Philadelphia, PA-NJ PMSA (PA Part)	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Vineland-Millville-Bridgeton, NJ PMSA	1	210	90	12 985	398 339	10 077	20 007	277 203	978 464	927 899	1 896 126	89 697
<b>New Mexico</b>		<b>1 588</b>	<b>290</b>	<b>39 539</b>	<b>1 131 505</b>	<b>29 244</b>	<b>56 972</b>	<b>718 570</b>	<b>13 487 517</b>	<b>4 675 305</b>	<b>18 096 992</b>	<b>572 910</b>
Albuquerque, NM MSA		798	174	25 718	786 869	18 663	37 843	489 036	12 243 232	1 961 265	14 165 838	434 012
Las Cruces, NM MSA	3	110	23	2 256	45 505	1 825	3 216	31 127	150 252	259 796	389 093	14 310
Santa Fe, NM MSA	5	176	14	1 493	33 633	1 086	1 780	20 957	75 622	54 374	130 624	4 984
<b>New York</b>		<b>23 862</b>	<b>6 653</b>	<b>778 833</b>	<b>26 319 424</b>	<b>533 795</b>	<b>1 049 318</b>	<b>14 577 589</b>	<b>75 858 926</b>	<b>68 693 723</b>	<b>145 019 529</b>	<b>5 626 038</b>
Albany-Schenectady-Troy, NY MSA		750	247	31 103	1 120 401	21 832	43 987	672 102	3 334 705	3 516 980	6 943 010	324 019
Binghamton, NY MSA	1	290	122	25 484	1 027 594	14 051	27 556	356 443	2 832 274	1 869 116	4 717 204	156 028
Buffalo-Niagara Falls, NY MSA		1 559	581	81 278	3 254 849	58 651	121 051	2 117 342	9 560 629	8 836 646	18 428 049	762 144
Elmira, NY MSA		94	44	9 098	278 083	6 214	12 888	170 432	765 645	576 980	1 357 316	64 924
Glen Falls, NY MSA		182	55	7 842	266 057	5 532	11 053	151 005	797 552	694 751	1 488 025	74 663
Jamestown, NY MSA		220	90	13 012	407 681	9 593	19 363	266 175	1 482 522	1 495 006	2 991 786	109 835
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA	1	29 558	8 200	830 950	29 097 207	553 321	1 093 927	14 901 482	87 014 682	74 718 992	161 783 475	5 629 850
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (CT Part)	1	3 133	1 012	125 723	5 087 546	76 929	159 190	2 449 285	15 604 628	10 833 670	26 371 814	1 001 942
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NJ Part)	1	9 861	3 169	333 660	12 664 586	223 013	454 720	6 555 475	41 282 057	36 805 865	77 989 382	2 587 972
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (NY Part)	2	16 536	4 015	371 232	11 334 976	253 202	479 752	5 893 542	30 102 207	26 976 237	57 285 948	2 036 548
New York-Northern New Jersey-Long Island, NY-NJ-CT-PA CMSA (PA Part)		28	4	335	10 099	177	265	3 180	25 790	103 220	136 331	3 388
Dutchess County, NY PMSA		210	59	11 848	521 317	5 675	11 405	153 806	937 456	1 932 127	3 032 927	54 681
Nassau-Suffolk, NY PMSA	1	4 172	1 025	110 353	3 913 037	69 723	136 539	1 856 818	10 395 671	7 715 677	18 114 840	634 628
New York, NY PMSA	3	11 808	2 824	238 209	6 584 862	169 726	316 052	3 679 216	17 999 785	16 264 877	34 304 311	1 285 856
Newburgh, NY-PA PMSA	1	374	111	11 157	325 859	8 255	16 021	206 882	795 085	1 166 776	1 970 201	64 771
Newburgh, NY-PA PMSA (NY Part)	1	346	107	j	D	D	D	D	D	D	D	D
Newburgh, NY-PA PMSA (PA Part)		28	4	e	D	D	D	D	D	D	D	D
Rochester, NY MSA		1 512	578	104 544	4 169 179	67 961	139 487	2 226 650	14 418 851	11 294 853	25 814 127	1 055 710
Syracuse, NY MSA		786	276	44 468	1 671 642	29 855	60 702	937 797	4 580 446	5 287 199	9 890 446	367 379
Utica-Rome, NY MSA	2	351	132	19 746	578 864	14 709	28 572	376 736	1 575 927	1 581 435	3 134 338	94 439
<b>North Carolina</b>		<b>11 276</b>	<b>4 600</b>	<b>771 474</b>	<b>21 202 451</b>	<b>599 534</b>	<b>1 192 012</b>	<b>13 992 938</b>	<b>79 790 807</b>	<b>83 038 366</b>	<b>162 805 528</b>	<b>5 214 477</b>
Asheville, NC MSA		347	133	18 516	517 723	13 999	28 665	323 154	1 480 618	1 617 125	3 110 550	108 793
Charlotte-Gastonia-Rock Hill, NC-SC MSA		2 413	918	133 090	4 042 572	100 239	207 493	2 606 899	17 586 378	14 459 326	32 000 386	1 071 325
Charlotte-Gastonia-Rock Hill, NC-SC MSA (NC Part)		2 193	830	121 554	3 655 363	91 674	189 937	2 359 639	16 436 493	13 311 884	29 700 173	994 937
Charlotte-Gastonia-Rock Hill, NC-SC MSA (SC Part)		220	88	11 536	387 209	8 565	17 556	247 260	1 149 885	1 147 442	2 300 213	76 388
Fayetteville, NC MSA		121	52	12 282	384 612	9 912	19 938	281 927	1 442 982	1 367 574	2 766 911	93 238
Goldsboro, NC MSA		100	44	9 478	230 622	7 582	15 684	158 799	639 943	766 554	1 414 372	47 541
Greensboro-Winston-Salem-High Point, NC MSA	1	2 394	1 017	148 797	4 162 105	117 829	228 301	2 821 365	16 806 298	13 914 806	30 646 155	934 066
Greenville, NC MSA		119	50	9 305	280 849	6 985	13 886	174 479	1 707 304	1 027 491	2 741 904	112 077
Hickory-Morganton-Lenoir, NC MSA		1 011	515	78 623	1 925 619	65 939	127 789	1 411 288	4 669 824	5 272 018	9 882 119	336 366
Jacksonville, NC MSA		37	12	1 829	37 731	1 554	3 169	29 201	169 443	180 009	346 411	D
Norfolk-Virginia Beach-Newport News, VA-NC MSA		1 043	294	62 869	2 078 453	43 015	85 246	1 222 622	7 561 171	9 012 410	16 506 709	388 510
Norfolk-Virginia Beach-Newport News, VA-NC MSA (VA Part)		1 027	292	62 757	2 075 912	42 929	85 118	1 220 960	7 554 638	9 005 552	16 494 473	D
Raleigh-Durham-Chapel Hill, NC MSA		1 141	354	72 228	2 259 205	39 496	74 097	936 119	11 305 363	14 158 958	25 674 336	487 263
Rocky Mount, NC MSA		154	81	17 747	501 804	13 996	28 483	327 271	1 441 279	1 934 978	3 380 701	139 128
Wilmington, NC MSA		260	72	10 718	425 722	7 707	16 180	269 867	2 073 883	1 678 453	3 711 781	204 016

See footnotes at end of table.



**Table 2-2. 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]

Geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>North Dakota</b> .....	<b>1</b>	<b>702</b>	<b>188</b>	<b>21 948</b>	<b>604 532</b>	<b>16 359</b>	<b>31 447</b>	<b>386 806</b>	<b>2 008 799</b>	<b>3 297 443</b>	<b>5 295 480</b>	<b>201 019</b>
Bismarck, ND MSA .....	—	81	22	2 193	74 449	1 568	3 054	48 123	222 511	626 722	853 798	16 167
Fargo-Moorhead, ND—MN MSA .....	1	219	79	7 974	208 984	5 941	11 557	133 805	682 816	1 056 572	1 740 443	57 096
Fargo-Moorhead, ND—MN MSA (MN Part) .....	—	38	11	1 225	35 699	999	2 021	27 458	57 541	174 280	229 403	10 969
Fargo-Moorhead, ND—MN MSA (ND Part) .....	1	181	68	6 749	173 285	4 942	9 536	106 347	625 275	882 292	1 511 040	46 127
Grand Forks, ND—MN MSA .....	—	92	25	3 087	75 293	2 494	4 626	54 934	275 369	277 675	551 735	17 554
Grand Forks, ND—MN MSA (MN Part) .....	—	40	12	1 350	36 299	1 107	2 064	26 606	130 024	168 604	300 278	4 252
Grand Forks, ND—MN MSA (ND Part) .....	—	52	13	1 737	38 994	1 387	2 562	28 328	145 345	109 071	251 457	13 302
<b>Ohio</b> .....	<b>—</b>	<b>17 921</b>	<b>6 855</b>	<b>980 133</b>	<b>35 811 374</b>	<b>727 110</b>	<b>1 494 596</b>	<b>23 489 758</b>	<b>112 361 392</b>	<b>129 408 857</b>	<b>241 489 801</b>	<b>8 851 039</b>
Canton—Massillon, OH MSA .....	—	668	264	41 040	1 378 809	31 783	63 465	951 380	4 205 757	4 333 877	8 525 025	312 293
Cincinnati—Hamilton, OH—KY—IN CMSA .....	—	2 673	1 035	138 541	5 313 799	93 005	190 166	3 029 947	18 723 292	16 309 982	34 919 536	1 465 189
Cincinnati—Hamilton, OH—KY—IN CMSA (IN Part) .....	—	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati—Hamilton, OH—KY—IN CMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati—Hamilton, OH—KY—IN CMSA (OH Part) .....	—	2 224	850	116 239	4 549 431	76 639	156 876	2 556 214	16 348 441	14 100 422	30 382 039	1 275 119
Cincinnati, OH—KY—IN PMSA .....	—	2 280	883	118 300	4 499 899	78 129	158 191	2 470 981	14 384 929	14 053 370	28 345 270	1 267 446
Cincinnati, OH—KY—IN PMSA (IN Part) .....	—	40	14	2 261	87 160	1 607	2 872	53 481	198 674	129 703	304 271	15 556
Cincinnati, OH—KY—IN PMSA (KY Part) .....	1	409	171	20 041	677 208	14 759	30 418	420 252	2 176 177	2 079 857	4 233 226	174 514
Cincinnati, OH—KY—IN PMSA (OH Part) .....	—	1 831	698	95 998	3 735 531	61 763	124 901	1 997 248	12 010 078	11 843 810	23 807 773	1 077 376
Hamilton—Middletown, OH PMSA .....	—	393	152	20 241	813 900	14 876	31 975	558 966	4 338 363	2 256 612	6 574 266	197 743
Cleveland—Akron, OH CMSA .....	—	6 005	2 199	254 082	9 426 569	179 397	374 130	5 752 060	26 171 495	27 036 093	53 169 062	2 470 794
Akron, OH PMSA .....	1	1 387	529	55 160	1 911 006	38 739	79 711	1 156 579	4 693 364	4 237 760	8 961 755	478 374
Cleveland—Lorain—Elyria, OH PMSA .....	—	4 618	1 670	198 922	7 515 563	140 658	294 419	4 595 481	21 478 131	22 798 333	44 207 307	1 992 420
Columbus, OH MSA .....	—	1 574	552	77 196	2 740 525	55 987	111 259	1 709 102	9 646 952	8 550 622	18 141 832	719 015
Dayton—Springfield, OH MSA .....	—	1 558	586	87 964	3 468 519	65 043	136 315	2 323 251	10 462 924	12 701 142	23 107 718	649 874
Huntington—Ashland, WV—KY—OH MSA .....	—	260	101	14 777	540 084	11 318	23 260	395 271	2 570 822	3 490 462	6 061 632	236 732
Huntington—Ashland, WV—KY—OH MSA (KY Part) .....	—	72	31	5 384	232 596	4 312	9 013	180 357	1 212 793	2 348 635	3 550 120	144 094
Huntington—Ashland, WV—KY—OH MSA (OH Part) .....	1	44	12	1 969	65 020	1 462	3 100	46 790	530 855	459 192	998 054	33 568
Huntington—Ashland, WV—KY—OH MSA (WV Part) .....	1	144	58	7 424	242 468	5 544	11 147	168 124	827 174	682 635	1 513 458	59 070
Lima, OH MSA .....	—	225	88	17 808	696 479	13 575	28 893	488 413	3 569 061	4 826 844	8 384 353	329 661
Mansfield, OH MSA .....	—	309	138	21 464	770 244	16 743	34 032	561 275	1 854 386	1 773 763	3 612 611	163 791
Parkersburg—Marietta, WV—OH MSA .....	—	182	70	12 252	481 108	8 728	18 316	309 094	2 419 550	1 778 516	4 203 976	309 623
Parkersburg—Marietta, WV—OH MSA (OH Part) .....	—	104	43	5 242	187 834	3 591	7 496	113 645	933 625	962 452	1 902 110	106 014
Parkersburg—Marietta, WV—OH MSA (WV Part) .....	—	78	27	7 010	293 274	5 137	10 820	195 449	1 485 925	816 064	2 301 866	203 609
Stebenville—Weirton, OH—WV MSA .....	—	105	47	11 545	458 816	8 602	18 772	324 733	1 219 735	2 003 061	3 208 373	156 324
Stebenville—Weirton, OH—WV MSA (OH Part) .....	—	45	12	2 244	78 694	1 579	3 301	49 589	187 550	301 370	463 283	18 024
Stebenville—Weirton, OH—WV MSA (WV Part) .....	—	60	35	9 301	380 122	7 023	15 471	275 144	1 032 185	1 701 691	2 745 090	138 300
Toledo, OH MSA .....	—	952	391	55 542	2 190 619	43 840	91 337	1 602 721	5 698 296	10 623 299	16 339 912	436 970
Wheeling, WV—OH MSA .....	—	136	41	3 444	88 866	2 686	4 996	62 409	310 823	324 656	632 280	31 446
Wheeling, WV—OH MSA (OH Part) .....	—	55	13	1 523	36 909	1 190	2 221	26 412	111 446	162 993	272 475	19 800
Wheeling, WV—OH MSA (WV Part) .....	—	81	28	1 921	51 957	1 496	2 775	35 997	199 377	161 663	359 805	11 646
Youngstown—Warren, OH MSA .....	—	893	342	55 938	2 272 468	45 090	92 334	1 694 779	5 305 839	9 298 175	14 634 983	270 251
<b>Oklahoma</b> .....	<b>—</b>	<b>4 079</b>	<b>1 187</b>	<b>163 812</b>	<b>4 967 086</b>	<b>122 352</b>	<b>241 863</b>	<b>3 222 983</b>	<b>17 226 649</b>	<b>20 228 803</b>	<b>37 423 437</b>	<b>1 082 614</b>
Enid, OK MSA .....	—	66	14	2 389	62 677	2 090	3 043	41 971	232 575	265 901	506 210	7 307
Fort Smith, AR—OK MSA .....	—	312	128	26 985	673 146	22 220	43 486	493 614	2 226 593	2 742 393	4 994 854	147 634
Fort Smith, AR—OK MSA (AR Part) .....	—	293	123	16 000	460 100	10 000	19 000	23 000	100 000	100 000	100 000	145 750
Fort Smith, AR—OK MSA (OK Part) .....	—	19	5	1 000	2 000	1 000	1 000	1 000	1 000	1 000	1 000	1 884
Lawton, OK MSA .....	—	51	13	3 325	119 762	2 914	5 930	102 499	509 641	391 060	900 820	44 071
Oklahoma City, OK MSA .....	—	1 177	333	50 936	1 609 258	36 458	71 473	1 019 190	6 041 311	6 526 844	12 576 178	259 198
Tulsa, OK MSA .....	1	1 438	470	51 047	1 672 672	35 246	72 962	972 157	4 809 735	5 168 887	9 957 867	331 407
<b>Oregon</b> .....	<b>—</b>	<b>5 749</b>	<b>1 662</b>	<b>211 329</b>	<b>7 045 200</b>	<b>157 068</b>	<b>314 114</b>	<b>4 513 660</b>	<b>25 100 453</b>	<b>22 613 809</b>	<b>47 534 802</b>	<b>3 018 411</b>
Eugene—Springfield, OR MSA .....	1	624	172	19 097	584 274	14 035	27 012	378 139	1 491 855	2 137 538	3 609 792	758 149
Medford—Ashland, OR MSA .....	1	301	70	7 428	201 656	5 740	11 493	141 146	512 491	913 317	1 424 011	67 989
Portland—Salem, OR—WA CMSA .....	—	3 811	1 158	147 655	5 061 789	106 703	211 699	3 097 280	20 247 163	15 183 854	35 257 613	2 325 650
Portland—Salem, OR—WA CMSA (OR Part) .....	—	3 391	1 028	128 139	4 347 544	91 408	181 469	2 608 649	18 255 614	13 280 658	31 409 423	1 811 611
Portland—Salem, OR—WA CMSA (WA Part) .....	—	420	130	19 516	714 245	15 295	30 230	488 631	1 991 549	1 903 196	3 848 190	514 039
Portland—Vancouver, OR—WA PMSA .....	—	3 348	1 015	133 210	4 657 752	95 322	189 654	2 836 873	19 163 950	13 709 723	32 710 219	2 215 413
Portland—Vancouver, OR—WA PMSA (OR Part) .....	—	2 928	885	113 694	3 943 507	80 027	159 424	2 348 242	17 172 401	11 806 527	28 862 029	1 701 374
Portland—Vancouver, OR—WA PMSA (WA Part) .....	—	420	130	19 516	714 245	15 295	30 230	488 631	1 991 549	1 903 196	3 848 190	514 039
Salem, OR PMSA .....	1	463	143	14 445	404 037	11 381	22 045	260 407	1 083 213	1 474 131	2 547 394	110 237

See footnotes at end of table.

**Table 2-2. 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 appendices. For meaning of abbreviations and symbols, see introductory text]

Geographic area	E <sup>1</sup>	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>Pennsylvania</b> .....	<b>1</b>	<b>17 087</b>	<b>6 319</b>	<b>820 204</b>	<b>27 528 493</b>	<b>593 401</b>	<b>1 187 997</b>	<b>17 002 772</b>	<b>86 116 509</b>	<b>86 181 634</b>	<b>171 494 390</b>	<b>6 840 011</b>
Allentown—Bethlehem—Easton, PA MSA .....	—	918	368	44 905	1 490 246	32 151	63 670	894 072	6 889 325	3 719 105	10 606 245	439 583
Altoona, PA MSA .....	—	156	61	8 961	251 641	6 956	13 412	165 486	865 088	722 393	1 592 074	59 060
Erie, PA MSA .....	—	568	251	32 539	1 129 759	23 937	52 847	729 026	3 119 081	2 613 365	5 761 446	201 178
Harrisburg—Lebanon—Carlisle, PA MSA .....	—	673	264	38 845	1 239 517	29 567	59 963	852 086	3 945 531	4 777 332	8 642 067	239 579
Johnstown, PA MSA .....	2	269	99	11 743	290 819	8 329	15 250	183 406	792 177	1 138 803	1 950 762	46 276
Lancaster, PA MSA .....	—	916	368	52 836	1 737 796	40 086	79 038	1 167 409	5 599 342	4 984 775	10 459 145	435 243
New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA .....	1	29 558	8 200	830 950	29 097 207	553 321	1 093 927	14 901 482	87 014 682	74 718 992	161 783 475	5 629 850
New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (CT Part) .....	1	3 133	1 012	125 723	5 087 546	76 929	159 190	2 449 285	15 604 628	10 833 670	26 371 814	1 001 942
New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (NJ Part) .....	1	9 861	3 169	333 660	12 664 586	223 013	454 720	6 555 475	41 282 057	36 805 865	77 989 382	2 587 972
New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (NY Part) .....	2	16 536	4 015	371 232	11 334 976	253 202	479 752	5 893 542	30 102 207	26 976 237	57 285 948	2 036 548
New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (PA Part) .....	—	28	4	335	10 099	177	265	3 180	25 790	103 220	136 331	3 388
Newburgh, NY—PA PMSA .....	1	374	111	11 157	325 859	8 255	16 021	206 882	795 085	1 166 776	1 970 201	64 771
Newburgh, NY—PA PMSA (NY Part) .....	1	346	107	j	D	D	D	D	D	D	D	D
Newburgh, NY—PA PMSA (PA Part) .....	—	28	4	e	D	D	D	D	D	D	D	D
Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA .....	1	7 550	2 502	291 975	11 050 670	196 167	395 431	6 199 918	35 695 230	42 640 935	78 071 701	3 136 635
Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (DE Part) .....	—	455	149	22 459	1 024 161	14 944	31 952	611 000	3 035 178	5 737 772	8 711 690	409 807
Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (MD Part) .....	—	55	22	2 766	100 911	1 618	3 211	48 378	389 059	295 709	677 461	52 939
Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (NJ Part) .....	1	1 927	640	73 612	2 650 100	51 350	101 018	1 557 264	8 150 926	9 963 050	18 190 369	508 134
Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (PA Part) .....	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Philadelphia, PA—NJ PMSA .....	1	6 588	2 190	248 025	9 365 103	165 062	331 890	5 157 785	30 901 629	35 353 981	66 075 762	2 566 297
Philadelphia, PA—NJ PMSA (NJ Part) .....	—	1 475	499	54 887	2 089 605	36 807	72 640	1 174 509	6 781 562	8 709 577	15 583 581	400 542
Philadelphia, PA—NJ PMSA (PA Part) .....	1	5 113	1 691	193 138	7 275 498	128 255	259 250	3 983 276	24 120 067	26 644 404	50 492 181	2 165 755
Pittsburgh, PA MSA .....	—	2 993	988	119 830	4 321 634	82 557	163 456	2 573 852	11 138 696	13 175 946	24 116 509	896 216
Reading, PA MSA .....	—	586	240	41 572	1 509 453	30 892	62 296	953 198	3 991 718	3 652 218	7 614 095	344 703
Scranton—Wilkes-Barre—Hazleton, PA MSA .....	1	848	354	51 358	1 518 483	40 180	83 014	1 063 684	5 448 641	4 841 497	10 221 071	532 052
Sharon, PA MSA .....	1	198	77	10 435	326 309	7 769	15 584	220 551	910 861	1 551 829	2 438 542	57 587
State College, PA MSA .....	—	159	58	8 546	255 406	5 941	11 755	148 714	790 071	625 316	1 409 254	127 102
Williamsport, PA MSA .....	—	207	94	12 842	363 468	9 624	18 640	228 919	1 174 101	1 257 157	2 439 814	59 826
York, PA MSA .....	—	660	313	45 779	1 567 293	33 442	66 397	882 073	4 650 126	3 539 980	8 151 579	300 233
<b>Rhode Island</b> .....	<b>1</b>	<b>2 526</b>	<b>696</b>	<b>74 666</b>	<b>2 264 507</b>	<b>52 213</b>	<b>103 787</b>	<b>1 265 607</b>	<b>5 462 493</b>	<b>4 882 795</b>	<b>10 388 007</b>	<b>397 298</b>
New London—Norwich, CT—RI MSA ..	—	334	93	24 244	1 173 786	10 865	22 825	341 986	2 218 408	1 410 264	3 648 491	238 883
New London—Norwich, CT—RI MSA (CT Part) .....	1	288	78	22 719	1 125 251	9 708	20 455	308 897	2 100 970	1 303 244	3 420 042	232 189
New London—Norwich, CT—RI MSA (RI Part) .....	—	46	15	1 525	48 535	1 157	2 370	33 089	117 438	107 020	228 449	6 694
Providence—Fall River—Warwick, RI—MA MSA .....	1	2 910	858	96 793	2 899 987	69 211	138 639	1 646 992	6 804 190	6 178 653	13 049 963	520 545
Providence—Fall River—Warwick, RI—MA MSA (MA Part) .....	1	505	191	25 848	781 318	19 062	38 883	438 567	1 627 592	1 516 371	3 174 216	137 410
Providence—Fall River—Warwick, RI—MA MSA (RI Part) .....	1	2 405	667	70 945	2 118 669	50 149	99 756	1 208 425	5 176 598	4 662 282	9 875 747	383 135
<b>South Carolina</b> .....	<b>—</b>	<b>4 437</b>	<b>1 860</b>	<b>343 452</b>	<b>10 312 408</b>	<b>265 645</b>	<b>536 612</b>	<b>6 814 088</b>	<b>33 343 682</b>	<b>37 125 249</b>	<b>70 384 095</b>	<b>3 405 410</b>
Augusta—Aiken, GA—SC MSA .....	—	364	149	41 124	1 560 574	25 542	47 726	817 378	6 566 686	3 832 466	10 376 189	463 785
Augusta—Aiken, GA—SC MSA (GA Part) .....	—	237	98	19 084	619 348	13 651	26 818	375 719	3 038 301	2 744 758	5 786 515	161 885
Augusta—Aiken, GA—SC MSA (SC Part) .....	—	127	51	22 040	941 226	11 891	20 908	441 659	3 528 385	1 087 708	4 589 674	301 900
Charleston—North Charleston, SC MSA .....	—	414	132	20 554	686 658	14 897	30 511	435 856	2 801 551	3 459 763	6 306 800	656 741
Charlotte—Gastonia—Rock Hill, NC—SC MSA .....	—	2 413	918	133 090	4 042 572	100 239	207 493	2 606 899	17 586 378	14 459 326	32 000 386	1 071 325
Charlotte—Gastonia—Rock Hill, NC—SC MSA (NC Part) .....	—	2 193	830	121 554	3 655 363	91 674	189 937	2 359 639	16 436 493	13 311 884	29 700 173	994 937
Charlotte—Gastonia—Rock Hill, NC—SC MSA (SC Part) .....	—	220	88	11 536	387 209	8 565	17 556	247 260	1 149 885	1 147 442	2 300 213	76 388
Columbia, SC MSA .....	—	460	162	23 522	785 021	16 649	33 134	462 493	2 525 074	2 809 007	5 327 087	184 105
Florence, SC MSA .....	—	139	62	11 011	328 248	7 889	15 857	200 288	972 990	1 145 538	2 114 244	129 903
Greenville—Spartanburg—Anderson, SC MSA .....	—	1 598	683	119 616	3 662 729	94 082	191 291	2 471 593	11 000 495	13 873 041	24 817 799	1 085 144
Myrtle Beach, SC MSA .....	—	160	31	6 687	173 408	4 559	9 377	98 927	543 619	409 878	927 797	46 983
Sumter, SC MSA .....	—	83	49	12 549	300 171	10 925	21 403	227 386	966 101	1 063 995	2 030 523	61 991
<b>South Dakota</b> .....	<b>—</b>	<b>884</b>	<b>289</b>	<b>46 287</b>	<b>1 155 969</b>	<b>33 041</b>	<b>64 773</b>	<b>703 545</b>	<b>4 352 357</b>	<b>7 811 807</b>	<b>12 164 706</b>	<b>262 798</b>
Rapid City, SD MSA .....	2	134	38	4 263	100 840	3 214	6 051	62 420	318 502	606 685	867 319	25 372
Sioux Falls, SD MSA .....	—	196	65	12 882	337 628	9 536	19 224	216 269	1 212 079	2 037 130	3 161 379	78 690

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>Tennessee</b>	—	<b>7 384</b>	<b>2 888</b>	<b>482 639</b>	<b>14 329 669</b>	<b>374 140</b>	<b>741 421</b>	<b>9 454 387</b>	<b>44 527 758</b>	<b>54 195 539</b>	<b>98 649 891</b>	<b>3 853 294</b>
Chattanooga, TN—GA MSA	1	705	275	43 794	1 257 303	33 270	66 238	797 321	3 371 306	4 067 962	7 413 781	330 996
Chattanooga, TN—GA MSA (GA Part)	2	161	54	9 509	227 374	8 332	16 664	175 811	781 780	949 266	1 708 155	97 079
Chattanooga, TN—GA MSA (TN Part)	—	544	221	34 285	1 029 929	24 938	49 574	621 510	2 589 526	3 118 696	5 705 626	233 917
Clarksville—Hopkinsville, TN—KY MSA	—	138	55	10 994	298 011	9 129	18 449	215 146	1 113 586	1 069 307	2 177 503	85 850
Clarksville—Hopkinsville, TN—KY MSA (KY Part)	—	55	23	4 431	114 377	3 597	7 428	78 972	329 689	446 566	772 324	22 875
Clarksville—Hopkinsville, TN—KY MSA (TN Part)	—	83	32	6 563	183 634	5 532	11 021	136 174	783 897	622 741	1 405 179	62 975
Jackson, TN MSA	—	162	75	13 282	401 121	10 675	22 028	273 053	1 541 586	2 075 988	3 549 446	188 754
Johnson City—Kingsport—Bristol, TN—VA MSA	—	569	224	48 288	1 624 408	35 946	71 945	995 331	4 403 311	4 168 269	8 625 953	462 344
Johnson City—Kingsport—Bristol, TN—VA MSA (TN Part)	—	452	178	38 976	1 381 078	28 549	57 013	826 001	3 741 659	3 254 095	7 058 642	419 873
Johnson City—Kingsport—Bristol, TN—VA MSA (VA Part)	—	117	46	9 312	243 330	7 397	14 932	169 330	661 652	914 174	1 567 311	42 471
Knoxville, TN MSA	—	892	289	43 193	1 310 505	31 539	62 733	786 523	4 417 636	4 186 765	8 593 223	233 258
Memphis, TN—AR—MS MSA	—	1 149	471	57 634	1 854 726	40 058	80 976	1 065 814	6 192 353	8 430 963	14 703 789	498 743
Memphis, TN—AR—MS MSA (AR Part)	—	44	22	2 272	54 786	1 784	3 491	35 491	216 773	397 575	609 651	19 486
Memphis, TN—AR—MS MSA (MS Part)	1	129	61	6 977	207 151	5 165	11 188	132 937	553 437	786 858	1 339 191	39 128
Memphis, TN—AR—MS MSA (TN Part)	—	976	388	48 385	1 592 789	33 109	66 297	897 386	5 422 143	7 246 530	12 754 947	440 129
Nashville, TN MSA	—	1 537	550	84 185	2 775 852	63 968	125 082	1 809 374	8 370 430	13 130 092	21 434 508	992 910
<b>Texas</b>	—	<b>21 763</b>	<b>6 753</b>	<b>958 232</b>	<b>32 718 983</b>	<b>663 356</b>	<b>1 340 712</b>	<b>18 093 008</b>	<b>127 579 894</b>	<b>169 487 234</b>	<b>296 782 631</b>	<b>12 505 676</b>
Abilene, TX MSA	—	118	28	3 062	79 897	2 121	3 922	44 560	531 226	472 693	1 010 679	21 553
Amarillo, TX MSA	—	203	53	11 110	359 114	7 430	15 560	233 107	823 219	2 755 558	3 624 906	36 651
Austin—San Marcos, TX MSA	—	1 191	328	68 575	2 526 943	36 633	75 529	996 184	13 959 200	10 939 847	24 900 734	1 316 742
Beaumont—Port Arthur, TX MSA	—	347	115	21 392	1 052 709	15 262	34 500	690 311	5 635 368	13 247 585	18 961 523	826 002
Brownsville—Harlingen—San Benito, TX MSA	—	235	67	12 731	244 541	10 503	18 119	169 004	685 915	983 929	1 669 862	32 233
Bryan—College Station, TX MSA	1	100	24	2 953	73 625	2 137	4 417	42 684	168 461	196 120	362 371	12 355
Corpus Christi, TX MSA	4	266	71	11 326	473 557	7 756	15 764	294 712	2 910 507	8 164 586	11 203 015	377 707
Dallas—Fort Worth, TX CMSA	1	6 744	2 232	313 502	11 473 791	203 048	410 196	5 522 735	34 553 910	29 159 037	63 403 788	2 877 105
Dallas, TX PMSA	—	4 442	1 486	209 608	7 679 638	136 574	274 649	3 684 664	24 494 295	19 412 772	43 534 739	2 204 685
Fort Worth—Arlington, TX PMSA	1	2 302	746	103 894	3 794 153	66 474	135 547	1 838 071	10 059 615	9 746 265	19 869 049	672 420
El Paso, TX MSA	1	650	214	36 627	771 435	29 553	54 869	527 647	3 309 921	4 708 767	7 985 250	233 996
Houston—Galveston—Brazoria, TX CMSA	—	5 377	1 673	202 560	7 881 771	138 263	281 155	4 465 517	37 825 037	62 089 643	99 774 585	4 457 673
Brazoria, TX PMSA	—	199	61	14 269	685 243	10 111	20 320	12 425 116	2 595 118	8 174 294	10 776 818	793 692
Galveston—Texas City, TX PMSA	1	160	35	7 279	392 507	4 817	10 921	244 497	1 761 759	7 422 044	9 182 629	183 618
Houston, TX PMSA	—	5 018	1 577	181 012	6 804 021	123 335	249 914	3 795 904	33 468 160	46 493 305	79 815 138	3 480 363
Killeen—Temple, TX MSA	—	160	52	7 921	214 373	6 171	12 832	143 894	707 433	691 699	1 394 526	50 818
Laredo, TX MSA	1	87	15	1 389	27 181	969	1 530	15 067	135 807	117 435	254 090	18 501
Longview—Marshall, TX MSA	—	325	128	16 729	543 831	12 370	24 510	341 953	1 694 404	2 381 380	4 065 623	203 270
Lubbock, TX MSA	—	258	71	7 286	203 827	5 026	9 809	99 960	881 542	695 508	1 566 439	142 257
McAllen—Edinburg—Mission, TX MSA	—	261	66	9 975	173 517	8 159	13 667	123 139	671 915	749 801	1 428 173	40 651
Odessa—Midland, TX MSA	1	338	87	5 961	192 141	4 094	8 142	106 979	657 813	962 617	1 612 243	51 770
San Angelo, TX MSA	2	100	28	4 452	105 090	3 579	7 162	74 707	367 257	463 431	827 641	10 494
San Antonio, TX MSA	1	1 293	351	47 328	1 259 209	33 836	66 274	701 194	3 681 186	3 797 455	7 474 954	300 624
Sherman—Denison, TX MSA	—	139	46	10 133	363 170	7 781	15 822	222 696	1 806 594	1 365 829	3 166 517	209 816
Texarkana, TX—Texarkana, AR MSA	—	100	33	6 330	227 682	4 665	9 383	152 714	622 525	855 184	1 471 132	57 204
Texarkana, TX—Texarkana, AR MSA (AR Part)	—	25	8	2 274	99 726	1 648	3 092	68 033	263 404	236 887	495 614	25 144
Texarkana, TX—Texarkana, AR MSA (TX Part)	—	75	25	4 056	127 956	3 017	6 291	84 681	359 121	618 297	975 518	32 060
Tyler, TX MSA	—	213	66	10 969	381 088	8 450	17 061	262 592	1 112 957	1 180 233	2 299 149	49 581
Victoria, TX MSA	—	71	17	3 064	119 483	2 265	4 815	82 409	592 547	657 109	1 245 290	97 903
Waco, TX MSA	—	262	102	16 654	492 684	11 982	24 255	298 046	2 130 184	1 843 362	3 952 509	72 264
Wichita Falls, TX MSA	—	156	43	7 939	255 222	6 272	12 591	183 526	770 572	666 070	1 437 271	57 878
<b>Utah</b>	—	<b>2 855</b>	<b>857</b>	<b>121 899</b>	<b>3 765 895</b>	<b>86 686</b>	<b>169 255</b>	<b>2 246 557</b>	<b>11 689 959</b>	<b>13 346 669</b>	<b>24 953 032</b>	<b>948 033</b>
Flagstaff, AZ—UT MSA	—	101	15	2 487	81 859	1 411	2 913	32 697	358 079	241 868	603 701	27 506
Flagstaff, AZ—UT MSA (AZ Part)	—	95	13	g	D	D	D	D	D	D	D	D
Flagstaff, AZ—UT MSA (UT Part)	—	6	2	e	D	D	D	D	D	D	D	D
Provo—Orem, UT MSA	1	390	126	15 949	461 342	11 682	20 978	300 110	1 191 787	1 486 118	2 671 611	158 097
Salt Lake City—Ogden, UT MSA	—	1 873	571	79 637	2 548 928	54 794	108 996	1 419 327	8 343 257	9 090 861	17 334 502	579 587
<b>Vermont</b>	—	<b>1 225</b>	<b>339</b>	<b>42 503</b>	<b>1 457 047</b>	<b>29 291</b>	<b>57 719</b>	<b>757 088</b>	<b>4 028 276</b>	<b>3 929 084</b>	<b>7 799 397</b>	<b>732 944</b>
Burlington, VT MSA	—	271	85	16 306	684 953	9 424	18 864	237 472	2 201 552	2 286 475	4 346 980	574 605
<b>Virginia</b>	—	<b>5 970</b>	<b>2 032</b>	<b>370 242</b>	<b>11 549 863</b>	<b>274 381</b>	<b>549 218</b>	<b>7 243 796</b>	<b>43 180 687</b>	<b>40 772 089</b>	<b>83 872 063</b>	<b>3 423 260</b>
Charlottesville, VA MSA	1	141	36	6 974	235 538	4 210	8 377	100 039	718 929	548 720	1 257 002	35 080
Danville, VA MSA	1	106	46	15 092	420 079	12 391	24 860	307 747	1 292 414	1 542 403	2 845 998	90 795
Johnson City—Kingsport—Bristol, TN—VA MSA	—	569	224	48 288	1 624 408	35 946	71 945	995 331	4 403 311	4 168 269	8 625 953	462 344
Johnson City—Kingsport—Bristol, TN—VA MSA (TN Part)	—	452	178	38 976	1 381 078	28 549	57 013	826 001	3 741 659	3 254 095	7 058 642	419 873
Johnson City—Kingsport—Bristol, TN—VA MSA (VA Part)	—	117	46	9 312	243 330	7 397	14 932	169 330	661 652	914 174	1 567 311	42 471
Lynchburg, VA MSA	—	298	116	23 078	770 249	16 638	33 157	449 705	2 761 034	2 736 282	5 484 555	273 375
Norfolk—Virginia Beach—Newport News, VA—NC MSA	—	1 043	294	62 869	2 078 453	43 015	85 246	1 222 622	7 561 171	9 012 410	16 506 709	388 510
Norfolk—Virginia Beach—Newport News, VA—NC MSA (VA Part)	—	1 027	292	62 757	2 075 912	42 929	85 118	1 220 960	7 554 638	9 005 552	16 494 473	388 510
Richmond—Petersburg, VA MSA	—	1 001	343	54 519	2 116 547	38 660	78 380	1 294 914	12 510 806	7 111 822	19 697 868	1 082 377
Roanoke, VA MSA	—	310	119	19 793	591 312	13 558	27 091	350 228	2 171 100	1 866 606	4 006 755	116 183

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>Virginia—Con.</b>												
Washington—Baltimore, DC—MD—VA—WV CMSA	1	4 964	1 385	179 493	6 686 803	117 732	235 748	3 603 434	20 487 360	18 555 619	38 984 161	1 498 540
Washington—Baltimore, DC—MD—VA—WV CMSA (DC Part)	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington—Baltimore, DC—MD—VA—WV CMSA (MD Part)	1	3 473	1 030	137 668	5 116 580	90 053	180 724	2 793 587	16 366 918	15 077 589	31 402 048	1 135 243
Washington—Baltimore, DC—MD—VA—WV CMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington—Baltimore, DC—MD—VA—WV CMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
Washington, DC—MD—VA—WV PMSA	1	2 649	665	77 580	2 978 073	48 653	97 352	1 435 395	7 928 071	6 572 439	14 437 528	729 970
Washington, DC—MD—VA—WV PMSA (DC Part)	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington, DC—MD—VA—WV PMSA (MD Part)	1	1 158	310	35 755	1 407 850	20 974	42 328	625 548	3 807 629	3 094 409	6 855 415	366 673
Washington, DC—MD—VA—WV PMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington, DC—MD—VA—WV PMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
<b>Washington</b>	<b>1</b>	<b>7 781</b>	<b>2 145</b>	<b>327 207</b>	<b>12 970 253</b>	<b>212 981</b>	<b>424 129</b>	<b>7 042 745</b>	<b>31 534 413</b>	<b>48 896 972</b>	<b>78 507 552</b>	<b>2 628 861</b>
Bellingham, WA MSA	—	313	83	9 067	291 858	6 763	12 820	192 996	887 008	3 085 696	3 988 234	86 325
Portland—Salem, OR—WA CMSA	—	3 811	1 158	147 655	5 061 789	106 703	211 699	3 097 280	20 247 163	15 183 854	35 257 613	2 325 650
Portland—Salem, OR—WA CMSA (OR Part)	—	3 391	1 028	128 139	4 347 544	91 408	181 469	2 608 649	18 255 614	13 280 658	31 409 423	1 811 611
Portland—Salem, OR—WA CMSA (WA Part)	—	420	130	19 516	714 245	15 295	30 230	488 631	1 991 549	1 903 196	3 848 190	514 039
Portland—Vancouver, OR—WA PMSA	—	3 348	1 015	133 210	4 657 752	95 322	189 654	2 836 873	19 163 950	13 709 723	32 710 219	2 215 413
Portland—Vancouver, OR—WA PMSA (OR Part)	—	2 928	885	113 694	3 943 507	80 027	159 424	2 348 242	17 172 401	11 806 527	28 862 029	1 701 374
Portland—Vancouver, OR—WA PMSA (WA Part)	—	420	130	19 516	714 245	15 295	30 230	488 631	1 991 549	1 903 196	3 848 190	514 039
Richland—Kennewick—Pasco, WA MSA	—	168	31	6 764	208 594	5 302	10 984	134 328	646 665	1 408 500	2 045 956	65 247
Seattle—Tacoma—Bremerton, WA CMSA	2	4 845	1 318	219 335	9 439 814	129 377	260 869	4 634 018	21 418 388	32 021 251	51 565 150	1 243 036
Bremerton, WA PMSA	2	143	16	1 441	36 809	1 016	1 680	20 851	81 349	59 960	142 740	3 842
Olympia, WA PMSA	—	156	37	3 218	100 654	2 503	4 590	69 868	304 361	465 229	761 028	29 218
Seattle—Bellevue—Everett, WA PMSA	2	3 868	1 057	192 457	8 595 706	109 033	220 313	4 064 464	19 118 108	29 079 010	46 346 438	1 015 209
Tacoma, WA PMSA	1	678	208	22 219	706 645	16 825	34 286	478 835	1 914 570	2 417 052	4 314 944	194 767
Spokane, WA MSA	—	570	174	20 572	667 079	14 515	28 491	398 485	1 605 531	2 153 834	3 760 047	152 239
Yakima, WA MSA	—	238	88	10 023	261 753	8 080	15 335	184 574	744 698	1 282 739	2 023 481	87 395
<b>West Virginia</b>	<b>—</b>	<b>1 499</b>	<b>512</b>	<b>72 425</b>	<b>2 453 353</b>	<b>55 378</b>	<b>112 022</b>	<b>1 655 632</b>	<b>8 980 535</b>	<b>8 941 129</b>	<b>17 947 576</b>	<b>914 250</b>
Charleston, WV MSA	—	172	48	7 456	307 397	5 272	10 762	201 458	2 035 835	1 248 260	3 292 162	94 904
Cumberland, MD—WV MSA	—	83	29	5 307	179 632	4 034	7 762	120 354	498 219	409 274	922 229	191 987
Cumberland, MD—WV MSA (MD Part)	—	67	21	4 169	139 197	3 206	6 128	95 607	396 422	374 661	785 922	D
Cumberland, MD—WV MSA (WV Part)	—	16	8	1 138	40 435	828	1 634	24 747	101 797	34 613	136 307	D
Huntington—Ashland, WV—KY—OH MSA	—	260	101	14 777	540 084	11 318	23 260	395 271	2 570 822	3 490 462	6 061 632	236 732
Huntington—Ashland, WV—KY—OH MSA (KY Part)	—	72	31	5 384	232 596	4 312	9 013	180 357	1 212 793	2 348 635	3 550 120	144 094
Huntington—Ashland, WV—KY—OH MSA (OH Part)	1	44	12	1 969	65 020	1 462	3 100	46 790	530 855	459 192	998 054	33 568
Huntington—Ashland, WV—KY—OH MSA (WV Part)	1	144	58	7 424	242 468	5 544	11 147	168 124	827 174	682 635	1 513 458	59 070
Parkersburg—Marietta, WV—OH MSA	—	182	70	12 252	481 108	8 728	18 316	309 094	2 419 550	1 778 516	4 203 976	309 623
Parkersburg—Marietta, WV—OH MSA (OH Part)	—	104	43	5 242	187 834	3 591	7 496	113 645	933 625	962 452	1 902 110	106 014
Parkersburg—Marietta, WV—OH MSA (WV Part)	—	78	27	7 010	293 274	5 137	10 820	195 449	1 485 925	816 064	2 301 866	203 609
Stuebenville—Weirton, OH—WV MSA	—	105	47	11 545	458 816	8 602	18 772	324 733	1 219 735	2 003 061	3 208 373	156 324
Stuebenville—Weirton, OH—WV MSA (OH Part)	—	45	12	2 244	78 694	1 579	3 301	49 589	187 550	301 370	463 283	18 024
Stuebenville—Weirton, OH—WV MSA (WV Part)	—	60	35	9 301	380 122	7 023	15 471	275 144	1 032 185	1 701 691	2 745 090	138 300
Washington—Baltimore, DC—MD—VA—WV CMSA	1	4 964	1 385	179 493	6 686 803	117 732	235 748	3 603 434	20 487 360	18 555 619	38 984 161	1 498 540
Washington—Baltimore, DC—MD—VA—WV CMSA (DC Part)	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington—Baltimore, DC—MD—VA—WV CMSA (MD Part)	1	3 473	1 030	137 668	5 116 580	90 053	180 724	2 793 587	16 366 918	15 077 589	31 402 048	1 135 243
Washington—Baltimore, DC—MD—VA—WV CMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington—Baltimore, DC—MD—VA—WV CMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930
Washington, DC—MD—VA—WV PMSA	1	2 649	665	77 580	2 978 073	48 653	97 352	1 435 395	7 928 071	6 572 439	14 437 528	729 970
Washington, DC—MD—VA—WV PMSA (DC Part)	2	199	35	2 847	100 865	1 916	3 714	60 680	170 633	149 165	319 884	9 832
Washington, DC—MD—VA—WV PMSA (MD Part)	1	1 158	310	35 755	1 407 850	20 974	42 328	625 548	3 807 629	3 094 409	6 855 415	366 673
Washington, DC—MD—VA—WV PMSA (VA Part)	1	1 229	287	33 729	1 321 981	21 350	42 664	645 839	3 488 002	2 873 682	6 349 013	255 535
Washington, DC—MD—VA—WV PMSA (WV Part)	—	63	33	5 249	147 377	4 413	8 646	103 328	461 807	455 183	913 216	97 930

See footnotes at end of table.

**Table 2-2. 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]

Geographic area	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>West Virginia—Con.</b>												
Wheeling, WV—OH MSA .....	—	136	41	3 444	88 866	2 686	4 996	62 409	310 823	324 656	632 280	31 446
Wheeling, WV—OH MSA (OH Part) .	—	55	13	1 523	36 909	1 190	2 221	26 412	111 446	162 993	272 475	19 800
Wheeling, WV—OH MSA (WV Part) .....	—	81	28	1 921	51 957	1 496	2 775	35 997	199 377	161 663	359 805	11 646
<b>Wisconsin.....</b>	<b>—</b>	<b>9 914</b>	<b>3 886</b>	<b>560 582</b>	<b>18 874 331</b>	<b>414 966</b>	<b>829 277</b>	<b>12 001 190</b>	<b>54 974 219</b>	<b>62 210 676</b>	<b>117 150 720</b>	<b>4 134 060</b>
Appleton—Oshkosh—Neenah, WI MSA .....	—	681	324	54 651	1 924 718	40 008	82 374	1 268 207	5 816 356	6 694 199	12 494 446	439 626
Chicago—Gary—Kenosha, IL—IN—WI CMSA .....	1	14 049	5 180	657 756	24 662 571	455 113	938 434	14 041 438	72 716 057	73 153 686	145 571 118	6 064 259
Chicago—Gary—Kenosha, IL—IN—WI CMSA (IL Part) .....	1	13 277	4 882	598 848	21 895 860	410 541	843 698	12 036 965	64 141 788	61 024 127	124 914 067	5 010 461
Chicago—Gary—Kenosha, IL—IN—WI CMSA (IN Part) .....	—	568	216	49 382	2 370 470	37 247	79 555	1 723 019	7 685 363	10 974 522	18 615 686	907 012
Chicago—Gary—Kenosha, IL—IN—WI CMSA (WI Part) .....	—	204	82	9 526	396 241	7 325	15 181	281 454	888 906	1 155 037	2 041 365	146 786
Kenosha, WI PMSA .....	—	204	82	9 526	396 241	7 325	15 181	281 454	888 906	1 155 037	2 041 365	146 786
Duluth—Superior, MN—WI MSA .....	1	282	70	6 797	199 420	4 933	9 566	126 852	582 880	769 644	1 363 658	151 257
Duluth—Superior, MN—WI MSA (MN Part) .....	1	226	56	5 254	154 015	3 717	7 285	94 958	454 809	404 450	863 487	141 544
Duluth—Superior, MN—WI MSA (WI Part) .....	—	56	14	1 543	45 405	1 216	2 281	31 894	128 071	365 194	500 171	9 713
Eau Claire, WI MSA .....	—	219	76	10 624	314 605	8 042	15 087	216 360	810 437	828 992	1 641 106	105 016
Green Bay, WI MSA .....	1	394	166	25 693	1 010 959	18 422	38 194	600 422	2 573 645	3 627 027	6 184 141	219 161
Janesville—Beloit, WI MSA .....	—	234	81	19 547	785 294	15 128	32 406	553 483	3 927 278	6 220 648	10 126 977	209 531
La Crosse, WI—MN MSA .....	—	183	61	10 168	315 155	7 173	14 345	184 176	525 298	881 088	1 410 344	50 860
La Crosse, WI—MN MSA (MN Part) .....	—	23	6	497	10 459	338	693	6 452	28 870	21 356	50 147	3 062
La Crosse, WI—MN MSA (WI Part) .	—	160	55	9 671	304 696	6 835	13 652	177 724	496 428	859 732	1 360 197	47 798
Madison, WI MSA .....	—	560	183	26 200	855 812	18 505	36 971	500 973	2 257 492	2 303 317	4 583 921	129 186
Milwaukee—Racine, WI CMSA .....	—	3 547	1 382	184 216	6 775 342	128 951	256 957	4 013 599	19 405 659	17 143 835	36 540 378	1 339 673
Milwaukee—Waukesha, WI PMSA ..	—	3 168	1 241	165 650	6 121 959	115 721	231 366	3 626 320	16 189 042	15 171 696	31 348 131	1 147 105
Racine, WI PMSA .....	—	379	141	18 566	653 383	13 230	25 591	387 279	3 216 617	1 972 139	5 192 247	192 568
Minneapolis—St. Paul, MN—WI MSA ..	—	5 327	1 817	232 048	8 713 399	147 763	296 929	4 493 367	22 908 126	21 442 082	44 382 001	2 007 807
Minneapolis—St. Paul, MN—WI MSA (MN Part) .....	—	5 137	1 754	225 239	8 514 358	142 661	287 273	4 370 086	22 415 942	20 892 684	43 338 324	1 962 526
Minneapolis—St. Paul, MN—WI MSA (WI Part) .....	—	190	63	6 809	199 041	5 102	9 656	123 281	492 184	549 398	1 043 677	45 281
Sheboygan, WI MSA .....	1	238	116	19 720	619 217	14 359	27 625	377 534	2 015 464	2 189 457	4 219 519	145 057
Wausau, WI MSA .....	—	232	98	16 839	502 563	13 422	26 519	354 835	1 295 226	1 896 838	3 181 899	127 978
<b>Wyoming.....</b>	<b>1</b>	<b>503</b>	<b>90</b>	<b>8 448</b>	<b>256 382</b>	<b>6 426</b>	<b>12 209</b>	<b>174 810</b>	<b>1 030 583</b>	<b>1 910 250</b>	<b>2 955 070</b>	<b>76 990</b>
Casper, WY MSA .....	—	91	16	1 440	40 730	1 165	2 193	28 693	92 173	237 359	328 274	4 920
Cheyenne, WY MSA .....	—	48	17	1 349	45 224	985	1 861	28 399	173 805	429 223	606 289	15 817

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

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

**Table 2-3. Detailed Statistics for States: 1997**

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

Item	Value	Item	Value
<b>UNITED STATES</b>		<b>ALABAMA—Con.</b>	
Companies <sup>1</sup> .....	number.. 316 952	Total depreciation during year .....	\$1,000.. 2 159 176
All establishments .....	number.. 362 829	Total rental payments .....	\$1,000.. 519 544
Establishments with 1 to 19 employees .....	number.. 243 081	Buildings and other structures rental payments .....	\$1,000.. 285 974
Establishments with 20 to 99 employees .....	number.. 84 826	Machinery and equipment rental payments .....	\$1,000.. 233 570
Establishments with 100 employees or more .....	number.. 34 922	<b>ALASKA</b>	
All employees .....	number.. 16 805 127	Companies <sup>1</sup> .....	number.. 442
Total compensation .....	\$1,000.. 716 594 764	All establishments .....	number.. 486
Annual payroll .....	\$1,000.. 569 808 845	Establishments with 1 to 19 employees .....	number.. 385
Total fringe benefits .....	\$1,000.. 146 785 919	Establishments with 20 to 99 employees .....	number.. 72
Production workers, average for year .....	number.. 12 065 257	Establishments with 100 employees or more .....	number.. 29
Production workers on March 12 .....	number.. 11 967 377	All employees .....	number.. 10 722
Production workers on May 12 .....	number.. 12 034 012	Total compensation .....	\$1,000.. 399 084
Production workers on August 12 .....	number.. 12 133 773	Annual payroll .....	\$1,000.. 329 324
Production workers on November 12 .....	number.. 12 125 866	Total fringe benefits .....	\$1,000.. 69 760
Production-worker hours .....	1,000.. 24 183 271	Production workers, average for year .....	number.. 8 669
Production-worker wages .....	\$1,000.. 338 267 197	Production workers on March 12 .....	number.. 9 483
Total cost of materials .....	\$1,000.. 2 015 424 556	Production workers on May 12 .....	number.. 8 135
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 1 782 463 976	Production workers on August 12 .....	number.. 11 094
Cost of resales .....	\$1,000.. 113 751 236	Production workers on November 12 .....	number.. 5 964
Cost of fuels .....	\$1,000.. 26 214 645	Production-worker hours .....	1,000.. 18 942
Cost of purchased electricity .....	\$1,000.. 38 695 146	Production-worker wages .....	\$1,000.. 236 311
Cost of contract work .....	\$1,000.. 54 299 553	Total cost of materials .....	\$1,000.. 2 104 778
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 827 353 664	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 1 664 078
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 92 643 862	Cost of resales .....	\$1,000.. 297 238
Total value of shipments .....	\$1,000.. 3 834 700 920	Cost of fuels .....	\$1,000.. 98 735
Value added .....	\$1,000.. 1 825 688 027	Cost of purchased electricity .....	\$1,000.. 27 024
Total inventories, beginning of year .....	\$1,000.. 419 977 777	Cost of contract work .....	\$1,000.. 17 703
Finished goods inventories, beginning of year .....	\$1,000.. 142 400 832	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 376 175
Work-in-process inventories, beginning of year .....	\$1,000.. 132 553 508	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 206 119
Materials and supplies inventories, beginning of year .....	\$1,000.. 145 023 437	Total value of shipments .....	\$1,000.. 3 283 362
Total inventories, end of year .....	\$1,000.. 433 448 730	Value added .....	\$1,000.. 1 153 433
Finished goods inventories, end of year .....	\$1,000.. 147 646 704	Total inventories, beginning of year .....	\$1,000.. 315 140
Work-in-process inventories, end of year .....	\$1,000.. 133 710 385	Finished goods inventories, beginning of year .....	\$1,000.. 188 935
Materials and supplies inventories, end of year .....	\$1,000.. 152 091 641	Work-in-process inventories, beginning of year .....	\$1,000.. 41 031
Gross book value of total assets at beginning of year .....	\$1,000.. 1 446 452 439	Materials and supplies inventories, beginning of year .....	\$1,000.. 85 174
Total capital expenditures (new and used) .....	\$1,000.. 151 510 757	Total inventories, end of year .....	\$1,000.. 315 767
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 23 424 681	Finished goods inventories, end of year .....	\$1,000.. 191 732
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 128 086 076	Work-in-process inventories, end of year .....	\$1,000.. 26 069
Total retirements .....	\$1,000.. 46 658 714	Materials and supplies inventories, end of year .....	\$1,000.. 97 966
Gross book value of total assets at end of year .....	\$1,000.. 1 551 319 045	Gross book value of total assets at beginning of year .....	\$1,000.. 2 022 371
Total depreciation during year .....	\$1,000.. 100 256 983	Total capital expenditures (new and used) .....	\$1,000.. 129 586
Total rental payments .....	\$1,000.. 29 250 951	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 12 576
Buildings and other structures rental payments .....	\$1,000.. 13 651 200	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 117 010
Machinery and equipment rental payments .....	\$1,000.. 15 599 573	Total retirements .....	\$1,000.. 39 464
<b>ALABAMA</b>		Gross book value of total assets at end of year .....	\$1,000.. 2 112 493
Companies <sup>1</sup> .....	number.. 4 906	Total depreciation during year .....	\$1,000.. 96 584
All establishments .....	number.. 5 431	Total rental payments .....	\$1,000.. 30 472
Establishments with 1 to 19 employees .....	number.. 3 351	Buildings and other structures rental payments .....	\$1,000.. 13 760
Establishments with 20 to 99 employees .....	number.. 1 311	Machinery and equipment rental payments .....	\$1,000.. 16 712
Establishments with 100 employees or more .....	number.. 769	<b>ARIZONA</b>	
All employees .....	number.. 351 466	Companies <sup>1</sup> .....	number.. 4 741
Total compensation .....	\$1,000.. 12 834 347	All establishments .....	number.. 4 906
Annual payroll .....	\$1,000.. 10 170 963	Establishments with 1 to 19 employees .....	number.. 3 544
Total fringe benefits .....	\$1,000.. 2 663 384	Establishments with 20 to 99 employees .....	number.. 1 060
Production workers, average for year .....	number.. 274 823	Establishments with 100 employees or more .....	number.. 302
Production workers on March 12 .....	number.. 274 035	All employees .....	number.. 193 303
Production workers on May 12 .....	number.. 274 783	Total compensation .....	\$1,000.. 8 433 313
Production workers on August 12 .....	number.. 273 970	Annual payroll .....	\$1,000.. 6 740 161
Production workers on November 12 .....	number.. 276 504	Total fringe benefits .....	\$1,000.. 1 693 152
Production-worker hours .....	1,000.. 544 806	Production workers, average for year .....	number.. 121 631
Production-worker wages .....	\$1,000.. 6 922 461	Production workers on March 12 .....	number.. 120 196
Total cost of materials .....	\$1,000.. 38 687 820	Production workers on May 12 .....	number.. 121 301
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 34 809 413	Production workers on August 12 .....	number.. 122 320
Cost of resales .....	\$1,000.. 1 269 240	Production workers on November 12 .....	number.. 122 707
Cost of fuels .....	\$1,000.. 806 209	Production-worker hours .....	1,000.. 245 413
Cost of purchased electricity .....	\$1,000.. 1 022 679	Production-worker wages .....	\$1,000.. 2 992 380
Cost of contract work .....	\$1,000.. 780 279	Total cost of materials .....	\$1,000.. 15 838 358
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 26 295 447	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 14 056 610
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 5 117 721	Cost of resales .....	\$1,000.. 747 184
Total value of shipments .....	\$1,000.. 67 477 260	Cost of fuels .....	\$1,000.. 130 800
Value added .....	\$1,000.. 28 762 420	Cost of purchased electricity .....	\$1,000.. 387 064
Total inventories, beginning of year .....	\$1,000.. 7 092 610	Cost of contract work .....	\$1,000.. 516 700
Finished goods inventories, beginning of year .....	\$1,000.. 2 588 441	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 6 919 964
Work-in-process inventories, beginning of year .....	\$1,000.. 2 001 629	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 427 611
Materials and supplies inventories, beginning of year .....	\$1,000.. 2 502 540	Total value of shipments .....	\$1,000.. 43 994 086
Total inventories, end of year .....	\$1,000.. 7 243 708	Value added .....	\$1,000.. 27 900 974
Finished goods inventories, end of year .....	\$1,000.. 2 655 042	Total inventories, beginning of year .....	\$1,000.. 6 641 305
Work-in-process inventories, end of year .....	\$1,000.. 1 914 070	Finished goods inventories, beginning of year .....	\$1,000.. 1 125 762
Materials and supplies inventories, end of year .....	\$1,000.. 2 674 596	Work-in-process inventories, beginning of year .....	\$1,000.. 3 306 573
Gross book value of total assets at beginning of year .....	\$1,000.. 34 700 331	Materials and supplies inventories, beginning of year .....	\$1,000.. 2 208 970
Total capital expenditures (new and used) .....	\$1,000.. 3 051 253	Total inventories, end of year .....	\$1,000.. 6 618 188
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 436 684	Finished goods inventories, end of year .....	\$1,000.. 1 230 298
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 614 569	Work-in-process inventories, end of year .....	\$1,000.. 2 949 349
Total retirements .....	\$1,000.. 637 591	Materials and supplies inventories, end of year .....	\$1,000.. 2 438 541
Gross book value of total assets at end of year .....	\$1,000.. 37 113 993		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>ARIZONA—Con.</b>		<b>CALIFORNIA—Con.</b>	
Gross book value of total assets at beginning of year	\$1,000.. 15 516 996	Total inventories, beginning of year	\$1,000.. 48 978 127
Total capital expenditures (new and used)	\$1,000.. 2 506 179	Finished goods inventories, beginning of year	\$1,000.. 14 516 802
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 326 432	Work-in-process inventories, beginning of year	\$1,000.. 18 828 020
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 2 179 747	Materials and supplies inventories, beginning of year	\$1,000.. 15 633 305
Total retirements	\$1,000.. 592 019	Total inventories, end of year	\$1,000.. 51 100 956
Gross book value of total assets at end of year	\$1,000.. 17 431 156	Finished goods inventories, end of year	\$1,000.. 15 607 939
Total depreciation during year	\$1,000.. 1 488 352	Work-in-process inventories, end of year	\$1,000.. 18 970 118
Total rental payments	\$1,000.. 331 714	Materials and supplies inventories, end of year	\$1,000.. 16 522 899
Buildings and other structures rental payments	\$1,000.. 165 976	Gross book value of total assets at beginning of year	\$1,000.. 122 442 210
Machinery and equipment rental payments	\$1,000.. 165 738	Total capital expenditures (new and used)	\$1,000.. 16 362 409
<b>ARKANSAS</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 3 076 092
Companies <sup>1</sup>	number.. 2 960	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 13 286 317
All establishments	number.. 3 302	Total retirements	\$1,000.. 5 209 738
Establishments with 1 to 19 employees	number.. 2 065	Gross book value of total assets at end of year	\$1,000.. 133 594 881
Establishments with 20 to 99 employees	number.. 717	Total depreciation during year	\$1,000.. 9 930 496
Establishments with 100 employees or more	number.. 520	Total rental payments	\$1,000.. 4 733 396
All employees	number.. 229 093	Buildings and other structures rental payments	\$1,000.. 2 644 272
Total compensation	\$1,000.. 7 277 498	Machinery and equipment rental payments	\$1,000.. 2 089 124
Annual payroll	\$1,000.. 5 756 536	<b>COLORADO</b>	
Total fringe benefits	\$1,000.. 1 520 962	Companies <sup>1</sup>	number.. 5 290
Production workers, average for year	number.. 186 668	All establishments	number.. 4 466
Production workers on March 12	number.. 186 243	Establishments with 1 to 19 employees	number.. 5 214
Production workers on May 12	number.. 187 098	Establishments with 20 to 99 employees	number.. 965
Production workers on August 12	number.. 187 019	Establishments with 100 employees or more	number.. 287
Production workers on November 12	number.. 186 312	All employees	number.. 172 307
Production-worker hours	1,000.. 367 624	Total compensation	\$1,000.. 7 658 861
Production-worker wages	\$1,000.. 4 178 912	Annual payroll	\$1,000.. 6 170 883
Total cost of materials	\$1,000.. 25 868 119	Total fringe benefits	\$1,000.. 1 487 978
Cost of materials, parts, containers, etc., consumed	\$1,000.. 22 965 800	Production workers, average for year	number.. 114 457
Cost of resales	\$1,000.. 1 657 575	Production workers on March 12	number.. 112 968
Cost of fuels	\$1,000.. 369 477	Production workers on May 12	number.. 114 114
Cost of purchased electricity	\$1,000.. 564 123	Production workers on August 12	number.. 115 608
Cost of contract work	\$1,000.. 311 144	Production workers on November 12	number.. 115 138
Quantity of electricity purchased for heat and power	1,000 kWh.. 13 424 795	Production-worker hours	1,000.. 224 728
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 2 432 384	Production-worker wages	\$1,000.. 3 156 218
Total value of shipments	\$1,000.. 45 223 211	Total cost of materials	\$1,000.. 19 311 738
Value added	\$1,000.. 19 392 561	Cost of materials, parts, containers, etc., consumed	\$1,000.. 16 034 302
Total inventories, beginning of year	\$1,000.. 4 798 449	Cost of resales	\$1,000.. 1 171 184
Finished goods inventories, beginning of year	\$1,000.. 2 024 852	Cost of fuels	\$1,000.. 1 130 023
Work-in-process inventories, beginning of year	\$1,000.. 820 461	Cost of purchased electricity	\$1,000.. 248 648
Materials and supplies inventories, beginning of year	\$1,000.. 1 953 136	Cost of contract work	\$1,000.. 1 826 581
Total inventories, end of year	\$1,000.. 4 997 821	Quantity of electricity purchased for heat and power	1,000 kWh.. 5 658 168
Finished goods inventories, end of year	\$1,000.. 2 091 497	Quantity of electricity generated less sold for heat and power	1,000 kWh.. S
Work-in-process inventories, end of year	\$1,000.. 807 803	Total value of shipments	\$1,000.. 39 812 716
Materials and supplies inventories, end of year	\$1,000.. 2 098 521	Value added	\$1,000.. 20 609 367
Gross book value of total assets at beginning of year	\$1,000.. 17 709 851	Total inventories, beginning of year	\$1,000.. 4 083 991
Total capital expenditures (new and used)	\$1,000.. 1 557 573	Finished goods inventories, beginning of year	\$1,000.. 1 171 401
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 191 625	Work-in-process inventories, beginning of year	\$1,000.. 1 329 126
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 365 948	Materials and supplies inventories, beginning of year	\$1,000.. 1 583 464
Total retirements	\$1,000.. 373 426	Total inventories, end of year	\$1,000.. 4 262 521
Gross book value of total assets at end of year	\$1,000.. 18 893 998	Finished goods inventories, end of year	\$1,000.. 1 163 942
Total depreciation during year	\$1,000.. 1 140 682	Work-in-process inventories, end of year	\$1,000.. 1 446 948
Total rental payments	\$1,000.. 219 953	Materials and supplies inventories, end of year	\$1,000.. 1 651 631
Buildings and other structures rental payments	\$1,000.. 81 440	Gross book value of total assets at beginning of year	\$1,000.. 12 604 413
Machinery and equipment rental payments	\$1,000.. 138 513	Total capital expenditures (new and used)	\$1,000.. 1 698 936
<b>CALIFORNIA</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 354 382
Companies <sup>1</sup>	number.. 46 584	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 344 554
All establishments	number.. 49 291	Total retirements	\$1,000.. 508 806
Establishments with 1 to 19 employees	number.. 34 124	Gross book value of total assets at end of year	\$1,000.. 13 794 543
Establishments with 20 to 99 employees	number.. 11 607	Total depreciation during year	\$1,000.. 1 087 895
Establishments with 100 employees or more	number.. 3 560	Total rental payments	\$1,000.. 415 577
All employees	number.. 1 795 000	Buildings and other structures rental payments	\$1,000.. 168 353
Total compensation	\$1,000.. 80 503 521	Machinery and equipment rental payments	\$1,000.. 247 224
Annual payroll	\$1,000.. 65 346 827	<b>CONNECTICUT</b>	
Total fringe benefits	\$1,000.. 15 156 694	Companies <sup>1</sup>	number.. 5 564
Production workers, average for year	number.. 1 173 062	All establishments	number.. 5 829
Production workers on March 12	number.. 1 153 289	Establishments with 1 to 19 employees	number.. 3 915
Production workers on May 12	number.. 1 164 374	Establishments with 20 to 99 employees	number.. 1 421
Production workers on August 12	number.. 1 197 658	Establishments with 100 employees or more	number.. 493
Production workers on November 12	number.. 1 176 927	All employees	number.. 250 848
Production-worker hours	1,000.. 2 296 334	Total compensation	\$1,000.. 12 982 575
Production-worker wages	\$1,000.. 30 927 960	Annual payroll	\$1,000.. 10 401 916
Total cost of materials	\$1,000.. 183 934 654	Total fringe benefits	\$1,000.. 2 580 659
Cost of materials, parts, containers, etc., consumed	\$1,000.. 158 180 340	Production workers, average for year	number.. 152 009
Cost of resales	\$1,000.. 12 175 192	Production workers on March 12	number.. 153 148
Cost of fuels	\$1,000.. 1 488 824	Production workers on May 12	number.. 151 796
Cost of purchased electricity	\$1,000.. 3 429 538	Production workers on August 12	number.. 151 583
Cost of contract work	\$1,000.. 8 660 760	Production workers on November 12	number.. 151 509
Quantity of electricity purchased for heat and power	1,000 kWh.. 44 222 286	Production-worker hours	1,000.. 315 068
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 2 322 885	Production-worker wages	\$1,000.. 4 877 952
Total value of shipments	\$1,000.. 378 729 557		
Value added	\$1,000.. 196 182 882		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>CONNECTICUT—Con.</b>		<b>DISTRICT OF COLUMBIA—Con.</b>	
Total cost of materials .....	\$1,000.. 19 789 500	Production workers, average for year .....	number.. 1 916
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 16 320 712	Production workers on March 12 .....	number.. 2 022
Cost of resales .....	\$1,000.. 1 926 238	Production workers on May 12 .....	number.. 1 863
Cost of fuels .....	\$1,000.. 193 398	Production workers on August 12 .....	number.. 1 883
Cost of purchased electricity .....	\$1,000.. 430 991	Production workers on November 12 .....	number.. 1 896
Cost of contract work .....	\$1,000.. 918 161	Production-worker hours .....	1,000.. 3 714
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 5 575 646	Production-worker wages .....	\$1,000.. 60 680
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. S	Total cost of materials .....	\$1,000.. 149 165
Total value of shipments .....	\$1,000.. 46 864 998	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 124 350
Value added .....	\$1,000.. 27 298 479	Cost of resales .....	\$1,000.. 9 329
Total inventories, beginning of year .....	\$1,000.. 6 637 733	Cost of fuels .....	\$1,000.. 1 537
Finished goods inventories, beginning of year .....	\$1,000.. 2 313 647	Cost of purchased electricity .....	\$1,000.. 2 909
Work-in-process inventories, beginning of year .....	\$1,000.. 2 428 497	Cost of contract work .....	\$1,000.. 11 040
Materials and supplies inventories, beginning of year .....	\$1,000.. 1 895 589	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 40 860
Total inventories, end of year .....	\$1,000.. 6 996 369	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Finished goods inventories, end of year .....	\$1,000.. 2 726 339	Total value of shipments .....	\$1,000.. 319 884
Work-in-process inventories, end of year .....	\$1,000.. 2 242 617	Value added .....	\$1,000.. 170 633
Materials and supplies inventories, end of year .....	\$1,000.. 2 027 413	Total inventories, beginning of year .....	\$1,000.. 26 609
Gross book value of total assets at beginning of year .....	\$1,000.. 18 793 045	Finished goods inventories, beginning of year .....	\$1,000.. 3 655
Total capital expenditures (new and used) .....	\$1,000.. 1 861 915	Work-in-process inventories, beginning of year .....	\$1,000.. 7 570
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 383 911	Materials and supplies inventories, beginning of year .....	\$1,000.. 15 384
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 1 478 004	Total inventories, end of year .....	\$1,000.. 23 229
Total retirements .....	\$1,000.. 630 112	Finished goods inventories, end of year .....	\$1,000.. 4 321
Gross book value of total assets at end of year .....	\$1,000.. 20 024 848	Work-in-process inventories, end of year .....	\$1,000.. 6 871
Total depreciation during year .....	\$1,000.. 1 275 038	Materials and supplies inventories, end of year .....	\$1,000.. 12 037
Total rental payments .....	\$1,000.. 482 992	Gross book value of total assets at beginning of year .....	\$1,000.. 133 353
Buildings and other structures rental payments .....	\$1,000.. 251 794	Total capital expenditures (new and used) .....	\$1,000.. 9 832
Machinery and equipment rental payments .....	\$1,000.. 231 198	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 869
<b>DELAWARE</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 8 963
Companies <sup>1</sup> .....	number.. 630	Total retirements .....	\$1,000.. 3 236
All establishments .....	number.. 671	Gross book value of total assets at end of year .....	\$1,000.. 139 949
Establishments with 1 to 19 employees .....	number.. 443	Total depreciation during year .....	\$1,000.. 9 293
Establishments with 20 to 99 employees .....	number.. 153	Total rental payments .....	\$1,000.. 7 243
Establishments with 100 employees or more .....	number.. 75	Buildings and other structures rental payments .....	\$1,000.. 3 517
All employees .....	number.. 39 954	Machinery and equipment rental payments .....	\$1,000.. 3 726
Total compensation .....	\$1,000.. 1 943 239	<b>FLORIDA</b>	
Annual payroll .....	\$1,000.. 1 489 381	Companies <sup>1</sup> .....	number.. 15 158
Total fringe benefits .....	\$1,000.. 453 858	All establishments .....	number.. 15 951
Production workers, average for year .....	number.. 29 041	Establishments with 1 to 19 employees .....	number.. 12 358
Production workers on March 12 .....	number.. 28 379	Establishments with 20 to 99 employees .....	number.. 2 754
Production workers on May 12 .....	number.. 28 218	Establishments with 100 employees or more .....	number.. 839
Production workers on August 12 .....	number.. 28 898	All employees .....	number.. 427 566
Production workers on November 12 .....	number.. 30 669	Total compensation .....	\$1,000.. 16 135 128
Production-worker hours .....	1,000.. 59 829	Annual payroll .....	\$1,000.. 12 973 069
Production-worker wages .....	\$1,000.. 918 390	Total fringe benefits .....	\$1,000.. 3 162 059
Total cost of materials .....	\$1,000.. 8 072 414	Production workers, average for year .....	number.. 288 139
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 6 506 816	Production workers on March 12 .....	number.. 286 971
Cost of resales .....	\$1,000.. 1 147 964	Production workers on May 12 .....	number.. 288 225
Cost of fuels .....	\$1,000.. 80 680	Production workers on August 12 .....	number.. 287 817
Cost of purchased electricity .....	\$1,000.. 133 821	Production workers on November 12 .....	number.. 289 543
Cost of contract work .....	\$1,000.. 203 133	Production-worker hours .....	1,000.. 555 402
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 3 122 959	Production-worker wages .....	\$1,000.. 6 721 651
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 217 004	Total cost of materials .....	\$1,000.. 37 289 528
Total value of shipments .....	\$1,000.. 13 205 659	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 32 700 291
Value added .....	\$1,000.. 5 209 618	Cost of resales .....	\$1,000.. 2 047 894
Total inventories, beginning of year .....	\$1,000.. 1 259 003	Cost of fuels .....	\$1,000.. 482 636
Finished goods inventories, beginning of year .....	\$1,000.. 556 590	Cost of purchased electricity .....	\$1,000.. 700 410
Work-in-process inventories, beginning of year .....	\$1,000.. 265 697	Cost of contract work .....	\$1,000.. 1 358 297
Materials and supplies inventories, beginning of year .....	\$1,000.. 436 716	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 12 178 554
Total inventories, end of year .....	\$1,000.. 1 350 871	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 5 608 910
Finished goods inventories, end of year .....	\$1,000.. 581 368	Total value of shipments .....	\$1,000.. 76 706 327
Work-in-process inventories, end of year .....	\$1,000.. 327 568	Value added .....	\$1,000.. 39 767 726
Materials and supplies inventories, end of year .....	\$1,000.. 441 935	Total inventories, beginning of year .....	\$1,000.. 8 925 442
Gross book value of total assets at beginning of year .....	\$1,000.. 4 932 130	Finished goods inventories, beginning of year .....	\$1,000.. 3 184 107
Total capital expenditures (new and used) .....	\$1,000.. 508 385	Work-in-process inventories, beginning of year .....	\$1,000.. 2 585 843
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 79 022	Materials and supplies inventories, beginning of year .....	\$1,000.. 3 155 492
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 429 363	Total inventories, end of year .....	\$1,000.. 9 516 963
Total retirements .....	\$1,000.. 71 867	Finished goods inventories, end of year .....	\$1,000.. 3 339 219
Gross book value of total assets at end of year .....	\$1,000.. 5 368 648	Work-in-process inventories, end of year .....	\$1,000.. 2 750 967
Total depreciation during year .....	\$1,000.. 304 717	Materials and supplies inventories, end of year .....	\$1,000.. 3 426 777
Total rental payments .....	\$1,000.. 48 814	Gross book value of total assets at beginning of year .....	\$1,000.. 27 930 284
Buildings and other structures rental payments .....	\$1,000.. 18 593	Total capital expenditures (new and used) .....	\$1,000.. 2 927 882
Machinery and equipment rental payments .....	\$1,000.. 30 221	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 471 884
<b>DISTRICT OF COLUMBIA</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 455 998
Companies <sup>1</sup> .....	number.. 190	Total retirements .....	\$1,000.. 857 619
All establishments .....	number.. 199	Gross book value of total assets at end of year .....	\$1,000.. 30 000 547
Establishments with 1 to 19 employees .....	number.. 164	Total depreciation during year .....	\$1,000.. 2 064 524
Establishments with 20 to 99 employees .....	number.. 31	Total rental payments .....	\$1,000.. 800 962
Establishments with 100 employees or more .....	number.. 4	Buildings and other structures rental payments .....	\$1,000.. 338 371
All employees .....	number.. 2 847	Machinery and equipment rental payments .....	\$1,000.. 462 591
Total compensation .....	\$1,000.. 119 979	<b>MANUFACTURING—SUBJECT SERIES</b>	
Annual payroll .....	\$1,000.. 100 865	<b>GENERAL SUMMARY—GEOG. AREA STATISTICS 2-67</b>	
Total fringe benefits .....	\$1,000.. 19 114		



**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>GEORGIA</b>		<b>HAWAII—Con.</b>	
Companies <sup>1</sup> .....	number.. 8 074	Total depreciation during year .....	\$1,000.. 68 277
All establishments .....	number.. 9 053	Total rental payments .....	\$1,000.. 38 344
Establishments with 1 to 19 employees .....	number.. 5 776	Buildings and other structures rental payments .....	\$1,000.. 23 011
Establishments with 20 to 99 employees .....	number.. 2 092	Machinery and equipment rental payments .....	\$1,000.. 15 333
Establishments with 100 employees or more .....	number.. 1 185	<b>IDAHO</b>	
All employees .....	number.. 531 450	Companies <sup>1</sup> .....	number.. 1 559
Total compensation .....	\$1,000.. 19 312 674	All establishments .....	number.. 1 643
Annual payroll .....	\$1,000.. 15 473 204	Establishments with 1 to 19 employees .....	number.. 1 226
Total fringe benefits .....	\$1,000.. 3 839 470	Establishments with 20 to 99 employees .....	number.. 291
Production workers, average for year .....	number.. 408 569	Establishments with 100 employees or more .....	number.. 126
Production workers on March 12 .....	number.. 406 014	All employees .....	number.. 65 997
Production workers on May 12 .....	number.. 407 539	Total compensation .....	\$1,000.. 2 575 625
Production workers on August 12 .....	number.. 409 928	Annual payroll .....	\$1,000.. 2 094 462
Production workers on November 12 .....	number.. 410 795	Total fringe benefits .....	\$1,000.. 481 163
Production-worker hours .....	1,000.. 826 574	Production workers, average for year .....	number.. 50 198
Production-worker wages .....	\$1,000.. 10 126 167	Production workers on March 12 .....	number.. 50 376
Total cost of materials .....	\$1,000.. 69 050 254	Production workers on May 12 .....	number.. 49 431
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 62 958 096	Production workers on August 12 .....	number.. 50 344
Cost of resales .....	\$1,000.. 2 935 188	Production workers on November 12 .....	number.. 50 641
Cost of fuels .....	\$1,000.. 797 455	Production-worker hours .....	1,000.. 89 069
Cost of purchased electricity .....	\$1,000.. 1 179 998	Production-worker wages .....	\$1,000.. 1 272 880
Cost of contract work .....	\$1,000.. 1 179 517	Total cost of materials .....	\$1,000.. 10 620 606
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 26 020 838	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 8 161 660
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 4 871 421	Cost of resales .....	\$1,000.. 1 968 494
Total value of shipments .....	\$1,000.. 124 003 137	Cost of fuels .....	\$1,000.. 97 092
Value added .....	\$1,000.. 55 426 485	Cost of purchased electricity .....	\$1,000.. 185 052
Total inventories, beginning of year .....	\$1,000.. 13 081 433	Cost of contract work .....	\$1,000.. 208 308
Finished goods inventories, beginning of year .....	\$1,000.. 4 390 154	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 6 935 487
Work-in-process inventories, beginning of year .....	\$1,000.. 3 326 735	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Materials and supplies inventories, beginning of year .....	\$1,000.. 5 364 544	Total value of shipments .....	\$1,000.. 16 900 224
Total inventories, end of year .....	\$1,000.. 13 588 066	Value added .....	\$1,000.. 6 383 900
Finished goods inventories, end of year .....	\$1,000.. 4 698 074	Total inventories, beginning of year .....	\$1,000.. 1 881 210
Work-in-process inventories, end of year .....	\$1,000.. 3 465 131	Finished goods inventories, beginning of year .....	\$1,000.. 619 202
Materials and supplies inventories, end of year .....	\$1,000.. 5 424 861	Work-in-process inventories, beginning of year .....	\$1,000.. 506 366
Gross book value of total assets at beginning of year .....	\$1,000.. 45 499 256	Materials and supplies inventories, beginning of year .....	\$1,000.. 755 642
Total capital expenditures (new and used) .....	\$1,000.. 4 153 507	Total inventories, end of year .....	\$1,000.. 2 028 293
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 622 682	Finished goods inventories, end of year .....	\$1,000.. 674 578
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 3 530 825	Work-in-process inventories, end of year .....	\$1,000.. 557 027
Total retirements .....	\$1,000.. 1 134 393	Materials and supplies inventories, end of year .....	\$1,000.. 796 688
Gross book value of total assets at end of year .....	\$1,000.. 48 518 370	Gross book value of total assets at beginning of year .....	\$1,000.. 5 384 473
Total depreciation during year .....	\$1,000.. 3 029 885	Total capital expenditures (new and used) .....	\$1,000.. 1 393 009
Total rental payments .....	\$1,000.. 679 123	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 253 087
Buildings and other structures rental payments .....	\$1,000.. 317 039	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 1 139 922
Machinery and equipment rental payments .....	\$1,000.. 362 084	Total retirements .....	\$1,000.. 185 903
<b>HAWAII</b>		Gross book value of total assets at end of year .....	\$1,000.. 6 591 579
Companies <sup>1</sup> .....	number.. 893	Total depreciation during year .....	\$1,000.. 375 993
All establishments .....	number.. 919	Total rental payments .....	\$1,000.. 75 908
Establishments with 1 to 19 employees .....	number.. 760	Buildings and other structures rental payments .....	\$1,000.. 31 581
Establishments with 20 to 99 employees .....	number.. 130	Machinery and equipment rental payments .....	\$1,000.. 44 327
Establishments with 100 employees or more .....	number.. 29	<b>ILLINOIS</b>	
All employees .....	number.. 15 093	Companies <sup>1</sup> .....	number.. 16 612
Total compensation .....	\$1,000.. 502 924	All establishments .....	number.. 17 912
Annual payroll .....	\$1,000.. 404 629	Establishments with 1 to 19 employees .....	number.. 11 374
Total fringe benefits .....	\$1,000.. 98 295	Establishments with 20 to 99 employees .....	number.. 4 599
Production workers, average for year .....	number.. 9 891	Establishments with 100 employees or more .....	number.. 1 939
Production workers on March 12 .....	number.. 9 825	All employees .....	number.. 883 358
Production workers on May 12 .....	number.. 9 761	Total compensation .....	\$1,000.. 39 812 706
Production workers on August 12 .....	number.. 10 183	Annual payroll .....	\$1,000.. 31 686 026
Production workers on November 12 .....	number.. 9 795	Total fringe benefits .....	\$1,000.. 8 126 680
Production-worker hours .....	1,000.. 18 343	Production workers, average for year .....	number.. 626 460
Production-worker wages .....	\$1,000.. 231 349	Production workers on March 12 .....	number.. 622 625
Total cost of materials .....	\$1,000.. 1 939 948	Production workers on May 12 .....	number.. 626 098
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 1 672 570	Production workers on August 12 .....	number.. 628 005
Cost of resales .....	\$1,000.. 151 904	Production workers on November 12 .....	number.. 629 112
Cost of fuels .....	\$1,000.. 51 118	Production-worker hours .....	1,000.. 1 278 831
Cost of purchased electricity .....	\$1,000.. 23 264	Production-worker wages .....	\$1,000.. 18 625 974
Cost of contract work .....	\$1,000.. 41 092	Total cost of materials .....	\$1,000.. 104 853 848
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 245 087	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 92 580 271
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D	Cost of resales .....	\$1,000.. 6 797 246
Total value of shipments .....	\$1,000.. 3 189 892	Cost of fuels .....	\$1,000.. 1 160 664
Value added .....	\$1,000.. 1 261 303	Cost of purchased electricity .....	\$1,000.. 1 919 822
Total inventories, beginning of year .....	\$1,000.. 335 871	Cost of contract work .....	\$1,000.. 2 395 845
Finished goods inventories, beginning of year .....	\$1,000.. 174 591	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 35 561 792
Work-in-process inventories, beginning of year .....	\$1,000.. 46 214	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 126 983
Materials and supplies inventories, beginning of year .....	\$1,000.. 115 066	Total value of shipments .....	\$1,000.. 199 893 976
Total inventories, end of year .....	\$1,000.. 350 959	Value added .....	\$1,000.. 95 342 475
Finished goods inventories, end of year .....	\$1,000.. 187 911	Total inventories, beginning of year .....	\$1,000.. 21 314 317
Work-in-process inventories, end of year .....	\$1,000.. 47 984	Finished goods inventories, beginning of year .....	\$1,000.. 8 037 610
Materials and supplies inventories, end of year .....	\$1,000.. 115 064	Work-in-process inventories, beginning of year .....	\$1,000.. 5 403 858
Gross book value of total assets at beginning of year .....	\$1,000.. 1 221 265	Materials and supplies inventories, beginning of year .....	\$1,000.. 7 872 849
Total capital expenditures (new and used) .....	\$1,000.. 100 669	Total inventories, end of year .....	\$1,000.. 22 212 225
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 38 736	Finished goods inventories, end of year .....	\$1,000.. 8 474 213
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 61 933	Work-in-process inventories, end of year .....	\$1,000.. 5 270 596
Total retirements .....	\$1,000.. 24 439	Materials and supplies inventories, end of year .....	\$1,000.. 8 467 416
Gross book value of total assets at end of year .....	\$1,000.. 1 297 495		

Table 2-3. Detailed Statistics for States: 1997—Con.

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

Item	Value	Item	Value
<b>ILLINOIS—Con.</b>		<b>IOWA—Con.</b>	
Gross book value of total assets at beginning of year	\$1,000.. 71 950 432	Total inventories, beginning of year	\$1,000.. 5 361 935
Total capital expenditures (new and used)	\$1,000.. 7 344 742	Finished goods inventories, beginning of year	\$1,000.. 2 125 264
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 1 118 268	Work-in-process inventories, beginning of year	\$1,000.. 1 292 984
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 6 226 474	Materials and supplies inventories, beginning of year	\$1,000.. 1 943 687
Total retirements	\$1,000.. 2 441 394	Total inventories, end of year	\$1,000.. 5 737 815
Gross book value of total assets at end of year	\$1,000.. 76 853 780	Finished goods inventories, end of year	\$1,000.. 2 198 304
Total depreciation during year	\$1,000.. 5 254 671	Work-in-process inventories, end of year	\$1,000.. 1 435 752
Total rental payments	\$1,000.. 1 640 893	Materials and supplies inventories, end of year	\$1,000.. 2 103 759
Buildings and other structures rental payments	\$1,000.. 815 929	Gross book value of total assets at beginning of year	\$1,000.. 20 426 602
Machinery and equipment rental payments	\$1,000.. 824 964	Total capital expenditures (new and used)	\$1,000.. 1 972 637
<b>INDIANA</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 305 032
Companies <sup>1</sup>	number.. 8 306	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 667 605
All establishments	number.. 9 279	Total retirements	\$1,000.. 607 173
Establishments with 1 to 19 employees	number.. 5 351	Gross book value of total assets at end of year	\$1,000.. 21 792 066
Establishments with 20 to 99 employees	number.. 2 606	Total depreciation during year	\$1,000.. 1 345 449
Establishments with 100 employees or more	number.. 1 322	Total rental payments	\$1,000.. 246 772
All employees	number.. 625 684	Buildings and other structures rental payments	\$1,000.. 97 987
Total compensation	\$1,000.. 28 532 721	Machinery and equipment rental payments	\$1,000.. 148 785
Annual payroll	\$1,000.. 22 163 782	<b>KANSAS</b>	
Total fringe benefits	\$1,000.. 6 368 939	Companies <sup>1</sup>	number.. 3 064
Production workers, average for year	number.. 477 158	All establishments	number.. 3 296
Production workers on March 12	number.. 474 914	Establishments with 1 to 19 employees	number.. 2 156
Production workers on May 12	number.. 477 491	Establishments with 20 to 99 employees	number.. 781
Production workers on August 12	number.. 477 545	Establishments with 100 employees or more	number.. 359
Production workers on November 12	number.. 478 682	All employees	number.. 193 002
Production-worker hours	1,000.. 978 646	Total compensation	\$1,000.. 8 296 345
Production-worker wages	\$1,000.. 14 919 136	Annual payroll	\$1,000.. 6 513 519
Total cost of materials	\$1,000.. 75 629 502	Total fringe benefits	\$1,000.. 1 782 826
Cost of materials, parts, containers, etc., consumed	\$1,000.. 68 617 205	Production workers, average for year	number.. 140 573
Cost of resales	\$1,000.. 2 813 187	Production workers on March 12	number.. 139 058
Cost of fuels	\$1,000.. 989 765	Production workers on May 12	number.. 140 675
Cost of purchased electricity	\$1,000.. 1 395 320	Production workers on August 12	number.. 140 598
Cost of contract work	\$1,000.. 1 814 025	Production workers on November 12	number.. 141 961
Quantity of electricity purchased for heat and power	1,000 kWh.. 33 035 684	Production-worker hours	1,000.. 280 314
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 3 276 201	Production-worker wages	\$1,000.. 4 039 225
Total value of shipments	\$1,000.. 142 182 844	Total cost of materials	\$1,000.. 29 081 270
Value added	\$1,000.. 67 173 341	Cost of materials, parts, containers, etc., consumed	\$1,000.. 26 904 160
Total inventories, beginning of year	\$1,000.. 14 441 284	Cost of resales	\$1,000.. 1 097 315
Finished goods inventories, beginning of year	\$1,000.. 5 040 711	Cost of fuels	\$1,000.. 2 122 618
Work-in-process inventories, beginning of year	\$1,000.. 3 822 882	Cost of purchased electricity	\$1,000.. 385 067
Materials and supplies inventories, beginning of year	\$1,000.. 5 577 691	Cost of contract work	\$1,000.. 482 110
Total inventories, end of year	\$1,000.. 15 014 588	Quantity of electricity purchased for heat and power	1,000 kWh.. 8 099 160
Finished goods inventories, end of year	\$1,000.. 5 170 746	Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Work-in-process inventories, end of year	\$1,000.. 4 364 831	Total value of shipments	\$1,000.. 47 080 651
Materials and supplies inventories, end of year	\$1,000.. 5 479 011	Value added	\$1,000.. 18 987 474
Gross book value of total assets at beginning of year	\$1,000.. 58 555 303	Total inventories, beginning of year	\$1,000.. 6 237 677
Total capital expenditures (new and used)	\$1,000.. 5 525 986	Finished goods inventories, beginning of year	\$1,000.. 1 666 014
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 778 314	Work-in-process inventories, beginning of year	\$1,000.. 2 622 779
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 4 747 672	Materials and supplies inventories, beginning of year	\$1,000.. 1 948 884
Total retirements	\$1,000.. 1 768 731	Total inventories, end of year	\$1,000.. 7 325 980
Gross book value of total assets at end of year	\$1,000.. 62 312 558	Finished goods inventories, end of year	\$1,000.. 2 084 039
Total depreciation during year	\$1,000.. 3 793 575	Work-in-process inventories, end of year	\$1,000.. 3 180 196
Total rental payments	\$1,000.. 927 357	Materials and supplies inventories, end of year	\$1,000.. 2 061 745
Buildings and other structures rental payments	\$1,000.. 351 689	Gross book value of total assets at beginning of year	\$1,000.. 14 510 290
Machinery and equipment rental payments	\$1,000.. 575 665	Total capital expenditures (new and used)	\$1,000.. 1 458 041
<b>IOWA</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 360 224
Companies <sup>1</sup>	number.. 3 304	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 097 817
All establishments	number.. 3 743	Total retirements	\$1,000.. 465 099
Establishments with 1 to 19 employees	number.. 2 336	Gross book value of total assets at end of year	\$1,000.. 15 503 232
Establishments with 20 to 99 employees	number.. 924	Total depreciation during year	\$1,000.. 1 014 116
Establishments with 100 employees or more	number.. 483	Total rental payments	\$1,000.. 208 159
All employees	number.. 236 865	Buildings and other structures rental payments	\$1,000.. 95 857
Total compensation	\$1,000.. 9 733 870	Machinery and equipment rental payments	\$1,000.. 112 302
Annual payroll	\$1,000.. 7 604 137	<b>KENTUCKY</b>	
Total fringe benefits	\$1,000.. 2 129 733	Companies <sup>1</sup>	number.. 3 819
Production workers, average for year	number.. 177 032	All establishments	number.. 4 205
Production workers on March 12	number.. 174 192	Establishments with 1 to 19 employees	number.. 2 498
Production workers on May 12	number.. 176 722	Establishments with 20 to 99 employees	number.. 1 027
Production workers on August 12	number.. 178 168	Establishments with 100 employees or more	number.. 680
Production workers on November 12	number.. 179 046	All employees	number.. 288 541
Production-worker hours	1,000.. 356 074	Total compensation	\$1,000.. 11 669 048
Production-worker wages	\$1,000.. 4 942 866	Annual payroll	\$1,000.. 9 197 961
Total cost of materials	\$1,000.. 34 116 111	Total fringe benefits	\$1,000.. 2 471 087
Cost of materials, parts, containers, etc., consumed	\$1,000.. 30 242 378	Production workers, average for year	number.. 224 434
Cost of resales	\$1,000.. 2 334 171	Production workers on March 12	number.. 222 641
Cost of fuels	\$1,000.. 453 986	Production workers on May 12	number.. 223 502
Cost of purchased electricity	\$1,000.. 547 830	Production workers on August 12	number.. 225 923
Cost of contract work	\$1,000.. 537 746	Production workers on November 12	number.. 225 670
Quantity of electricity purchased for heat and power	1,000 kWh.. 13 630 896	Production-worker hours	1,000.. 455 748
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D	Production-worker wages	\$1,000.. 6 249 883
Total value of shipments	\$1,000.. 62 511 051		
Value added	\$1,000.. 28 615 467		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>KENTUCKY—Con.</b>		<b>MAINE—Con.</b>	
Total cost of materials .....	\$1,000.. 48 696 757	Production workers, average for year .....	number.. 62 022
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 44 837 924	Production workers on March 12 .....	number.. 61 313
Cost of resales .....	\$1,000.. 1 685 002	Production workers on May 12 .....	number.. 61 975
Cost of fuels .....	\$1,000.. 466 359	Production workers on August 12 .....	number.. 62 969
Cost of purchased electricity .....	\$1,000.. 989 949	Production workers on November 12 .....	number.. 61 831
Cost of contract work .....	\$1,000.. 717 523	Production-worker hours .....	1,000.. 120 642
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 35 516 117	Production-worker wages .....	\$1,000.. 1 736 601
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. S	Total cost of materials .....	\$1,000.. 7 386 714
Total value of shipments .....	\$1,000.. 87 515 235	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 5 929 253
Value added .....	\$1,000.. 39 062 786	Cost of resales .....	\$1,000.. 419 409
Total inventories, beginning of year .....	\$1,000.. 7 336 319	Cost of fuels .....	\$1,000.. 272 047
Finished goods inventories, beginning of year .....	\$1,000.. 2 648 219	Cost of purchased electricity .....	\$1,000.. 306 123
Work-in-process inventories, beginning of year .....	\$1,000.. 1 810 690	Cost of contract work .....	\$1,000.. 459 882
Materials and supplies inventories, beginning of year .....	\$1,000.. 2 877 410	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 4 535 832
Total inventories, end of year .....	\$1,000.. 7 836 899	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 829 663
Finished goods inventories, end of year .....	\$1,000.. 2 788 734	Total value of shipments .....	\$1,000.. 14 066 822
Work-in-process inventories, end of year .....	\$1,000.. 1 905 639	Value added .....	\$1,000.. 6 698 567
Materials and supplies inventories, end of year .....	\$1,000.. 3 142 526	Total inventories, beginning of year .....	\$1,000.. 1 741 171
Gross book value of total assets at beginning of year .....	\$1,000.. 29 570 438	Finished goods inventories, beginning of year .....	\$1,000.. 642 739
Total capital expenditures (new and used) .....	\$1,000.. 3 426 692	Work-in-process inventories, beginning of year .....	\$1,000.. 482 395
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 366 920	Materials and supplies inventories, beginning of year .....	\$1,000.. 616 037
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 3 059 772	Total inventories, end of year .....	\$1,000.. 1 725 259
Total retirements .....	\$1,000.. 788 265	Finished goods inventories, end of year .....	\$1,000.. 703 881
Gross book value of total assets at end of year .....	\$1,000.. 32 208 865	Work-in-process inventories, end of year .....	\$1,000.. 399 918
Total depreciation during year .....	\$1,000.. 2 124 959	Materials and supplies inventories, end of year .....	\$1,000.. 621 460
Total rental payments .....	\$1,000.. 367 701	Gross book value of total assets at beginning of year .....	\$1,000.. 9 130 417
Buildings and other structures rental payments .....	\$1,000.. 165 856	Total capital expenditures (new and used) .....	\$1,000.. 592 362
Machinery and equipment rental payments .....	\$1,000.. 201 845	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 77 746
<b>LOUISIANA</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 514 616
Companies <sup>1</sup> .....	number.. 3 259	Total retirements .....	\$1,000.. 302 020
All establishments .....	number.. 3 536	Gross book value of total assets at end of year .....	\$1,000.. 9 420 759
Establishments with 1 to 19 employees .....	number.. 2 372	Total depreciation during year .....	\$1,000.. 498 213
Establishments with 20 to 99 employees .....	number.. 817	Total rental payments .....	\$1,000.. 103 540
Establishments with 100 employees or more .....	number.. 347	Buildings and other structures rental payments .....	\$1,000.. 47 642
All employees .....	number.. 164 938	Machinery and equipment rental payments .....	\$1,000.. 55 898
Total compensation .....	\$1,000.. 7 685 974	<b>MARYLAND</b>	
Annual payroll .....	\$1,000.. 6 025 203	Companies <sup>1</sup> .....	number.. 3 807
Total fringe benefits .....	\$1,000.. 1 660 771	All establishments .....	number.. 3 986
Production workers, average for year .....	number.. 122 970	Establishments with 1 to 19 employees .....	number.. 2 782
Production workers on March 12 .....	number.. 122 829	Establishments with 20 to 99 employees .....	number.. 854
Production workers on May 12 .....	number.. 122 547	Establishments with 100 employees or more .....	number.. 350
Production workers on August 12 .....	number.. 122 938	All employees .....	number.. 163 145
Production workers on November 12 .....	number.. 123 566	Total compensation .....	\$1,000.. 7 447 476
Production-worker hours .....	1,000.. 256 824	Annual payroll .....	\$1,000.. 5 810 016
Production-worker wages .....	\$1,000.. 3 949 080	Total fringe benefits .....	\$1,000.. 1 637 460
Total cost of materials .....	\$1,000.. 51 043 098	Production workers, average for year .....	number.. 109 090
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 46 012 356	Production workers on March 12 .....	number.. 107 528
Cost of resales .....	\$1,000.. 949 963	Production workers on May 12 .....	number.. 108 909
Cost of fuels .....	\$1,000.. 1 735 054	Production workers on August 12 .....	number.. 109 932
Cost of purchased electricity .....	\$1,000.. 1 263 083	Production workers on November 12 .....	number.. 109 991
Cost of contract work .....	\$1,000.. 1 082 642	Production-worker hours .....	1,000.. 218 330
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 30 843 148	Production-worker wages .....	\$1,000.. 3 233 951
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 15 101 553	Total cost of materials .....	\$1,000.. 17 772 765
Total value of shipments .....	\$1,000.. 78 333 959	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 15 389 410
Value added .....	\$1,000.. 27 463 050	Cost of resales .....	\$1,000.. 934 680
Total inventories, beginning of year .....	\$1,000.. 6 224 663	Cost of fuels .....	\$1,000.. 444 990
Finished goods inventories, beginning of year .....	\$1,000.. 2 865 908	Cost of purchased electricity .....	\$1,000.. 376 079
Work-in-process inventories, beginning of year .....	\$1,000.. 1 373 187	Cost of contract work .....	\$1,000.. 627 606
Materials and supplies inventories, beginning of year .....	\$1,000.. 1 985 568	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 8 804 137
Total inventories, end of year .....	\$1,000.. 6 476 349	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 482 436
Finished goods inventories, end of year .....	\$1,000.. 3 062 551	Total value of shipments .....	\$1,000.. 36 442 590
Work-in-process inventories, end of year .....	\$1,000.. 1 317 681	Value added .....	\$1,000.. 18 705 455
Materials and supplies inventories, end of year .....	\$1,000.. 2 096 117	Total inventories, beginning of year .....	\$1,000.. 3 790 965
Gross book value of total assets at beginning of year .....	\$1,000.. 41 167 792	Finished goods inventories, beginning of year .....	\$1,000.. 1 329 770
Total capital expenditures (new and used) .....	\$1,000.. 3 513 342	Work-in-process inventories, beginning of year .....	\$1,000.. 1 175 566
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 256 676	Materials and supplies inventories, beginning of year .....	\$1,000.. 1 285 629
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 3 256 666	Total inventories, end of year .....	\$1,000.. 3 967 426
Total retirements .....	\$1,000.. 638 271	Finished goods inventories, end of year .....	\$1,000.. 1 388 928
Gross book value of total assets at end of year .....	\$1,000.. 44 042 863	Work-in-process inventories, end of year .....	\$1,000.. 1 150 512
Total depreciation during year .....	\$1,000.. 2 269 153	Materials and supplies inventories, end of year .....	\$1,000.. 1 427 986
Total rental payments .....	\$1,000.. 320 141	Gross book value of total assets at beginning of year .....	\$1,000.. 12 834 828
Buildings and other structures rental payments .....	\$1,000.. 103 791	Total capital expenditures (new and used) .....	\$1,000.. 1 462 124
Machinery and equipment rental payments .....	\$1,000.. 216 350	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 231 758
<b>MAINE</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 1 230 366
Companies <sup>1</sup> .....	number.. 1 717	Total retirements .....	\$1,000.. 479 719
All establishments .....	number.. 1 809	Gross book value of total assets at end of year .....	\$1,000.. 13 817 233
Establishments with 1 to 19 employees .....	number.. 1 299	Total depreciation during year .....	\$1,000.. 903 528
Establishments with 20 to 99 employees .....	number.. 349	Total rental payments .....	\$1,000.. 309 583
Establishments with 100 employees or more .....	number.. 161	Buildings and other structures rental payments .....	\$1,000.. 163 254
All employees .....	number.. 81 279	Machinery and equipment rental payments .....	\$1,000.. 146 329
Total compensation .....	\$1,000.. 3 186 541		
Annual payroll .....	\$1,000.. 2 562 912		
Total fringe benefits .....	\$1,000.. 623 629		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>MASSACHUSETTS</b>		<b>MICHIGAN—Con.</b>	
Companies <sup>1</sup> .....	9 113	Total depreciation during year .....	\$1,000 .. 4 913 999
All establishments .....	9 534	Total rental payments .....	\$1,000 .. 1 519 963
Establishments with 1 to 19 employees .....	6 239	Buildings and other structures rental payments .....	\$1,000 .. 607 213
Establishments with 20 to 99 employees .....	2 445	Machinery and equipment rental payments .....	\$1,000 .. 912 750
Establishments with 100 employees or more .....	850	<b>MINNESOTA</b>	
All employees .....	415 224	Companies <sup>1</sup> .....	number .. 7 490
Total compensation .....	20 309 986	All establishments .....	number .. 8 064
Annual payroll .....	16 274 205	Establishments with 1 to 19 employees .....	number .. 5 355
Total fringe benefits .....	4 035 781	Establishments with 20 to 99 employees .....	number .. 1 864
Production workers, average for year .....	number .. 256 775	Establishments with 100 employees or more .....	number .. 845
Production workers on March 12 .....	number .. 255 269	All employees .....	number .. 379 938
Production workers on May 12 .....	number .. 256 996	Total compensation .....	\$1,000 .. 16 106 923
Production workers on August 12 .....	number .. 256 579	Annual payroll .....	\$1,000 .. 13 069 217
Production workers on November 12 .....	number .. 258 256	Total fringe benefits .....	\$1,000 .. 3 037 706
Production-worker hours .....	1,000 .. 520 200	Production workers, average for year .....	number .. 257 910
Production-worker wages .....	\$1,000 .. 7 737 438	Production workers on March 12 .....	number .. 253 216
Total cost of materials .....	\$1,000 .. 33 561 345	Production workers on May 12 .....	number .. 256 257
Cost of materials, parts, containers, etc., consumed .....	\$1,000 .. 28 272 206	Production workers on August 12 .....	number .. 263 144
Cost of resales .....	\$1,000 .. 2 846 165	Production workers on November 12 .....	number .. 259 023
Cost of fuels .....	\$1,000 .. 309 664	Production-worker hours .....	1,000 .. 513 688
Cost of purchased electricity .....	\$1,000 .. 715 988	Production-worker wages .....	\$1,000 .. 7 222 024
Cost of contract work .....	\$1,000 .. 1 417 322	Total cost of materials .....	\$1,000 .. 39 525 947
Quantity of electricity purchased for heat and power .....	1,000 kWh .. 8 592 647	Cost of materials, parts, containers, etc., consumed .....	\$1,000 .. 35 383 260
Quantity of electricity generated less sold for heat and power .....	1,000 kWh .. 287 824	Cost of resales .....	\$1,000 .. 2 175 573
Total value of shipments .....	\$1,000 .. 78 612 764	Cost of fuels .....	\$1,000 .. 380 561
Value added .....	\$1,000 .. 45 132 888	Cost of purchased electricity .....	\$1,000 .. 609 827
Total inventories, beginning of year .....	\$1,000 .. 10 338 419	Cost of contract work .....	\$1,000 .. 976 726
Finished goods inventories, beginning of year .....	\$1,000 .. 3 271 119	Quantity of electricity purchased for heat and power .....	1,000 kWh .. 14 670 342
Work-in-process inventories, beginning of year .....	\$1,000 .. 3 775 449	Quantity of electricity generated less sold for heat and power .....	1,000 kWh .. 665 568
Materials and supplies inventories, beginning of year .....	\$1,000 .. 3 291 851	Total value of shipments .....	\$1,000 .. 75 988 847
Total inventories, end of year .....	\$1,000 .. 10 647 956	Value added .....	\$1,000 .. 36 567 010
Finished goods inventories, end of year .....	\$1,000 .. 3 367 583	Total inventories, beginning of year .....	\$1,000 .. 7 961 121
Work-in-process inventories, end of year .....	\$1,000 .. 3 772 042	Finished goods inventories, beginning of year .....	\$1,000 .. 2 963 465
Materials and supplies inventories, end of year .....	\$1,000 .. 3 508 331	Work-in-process inventories, beginning of year .....	\$1,000 .. 1 904 776
Gross book value of total assets at beginning of year .....	\$1,000 .. 28 320 408	Materials and supplies inventories, beginning of year .....	\$1,000 .. 3 092 880
Total capital expenditures (new and used) .....	\$1,000 .. 3 635 273	Total inventories, end of year .....	\$1,000 .. 8 108 067
Capital expenditures for buildings and other structures (new and used) .....	\$1,000 .. 755 649	Finished goods inventories, end of year .....	\$1,000 .. 3 049 514
Capital expenditures for machinery and equipment (new and used) .....	\$1,000 .. 2 879 624	Work-in-process inventories, end of year .....	\$1,000 .. 1 942 586
Total retirements .....	\$1,000 .. 1 304 240	Materials and supplies inventories, end of year .....	\$1,000 .. 3 115 967
Gross book value of total assets at end of year .....	\$1,000 .. 30 651 441	Gross book value of total assets at beginning of year .....	\$1,000 .. 26 450 816
Total depreciation during year .....	\$1,000 .. 2 222 691	Total capital expenditures (new and used) .....	\$1,000 .. 3 186 779
Total rental payments .....	\$1,000 .. 406 271	Capital expenditures for buildings and other structures (new and used) .....	\$1,000 .. 416 383
Buildings and other structures rental payments .....	\$1,000 .. 471 252	Capital expenditures for machinery and equipment (new and used) .....	\$1,000 .. 2 770 396
Machinery and equipment rental payments .....	\$1,000 .. 406 271	Total retirements .....	\$1,000 .. 965 645
<b>MICHIGAN</b>		Gross book value of total assets at end of year .....	\$1,000 .. 28 671 950
Companies <sup>1</sup> .....	number .. 14 675	Total depreciation during year .....	\$1,000 .. 1 950 281
All establishments .....	number .. 16 005	Total rental payments .....	\$1,000 .. 980 168
Establishments with 1 to 19 employees .....	number .. 10 289	Buildings and other structures rental payments .....	\$1,000 .. 347 734
Establishments with 20 to 99 employees .....	number .. 4 117	Machinery and equipment rental payments .....	\$1,000 .. 632 434
Establishments with 100 employees or more .....	number .. 1 599	<b>MISSISSIPPI</b>	
All employees .....	number .. 828 396	Companies <sup>1</sup> .....	number .. 2 646
Total compensation .....	\$1,000 .. 44 352 321	All establishments .....	number .. 2 996
Annual payroll .....	\$1,000 .. 34 209 572	Establishments with 1 to 19 employees .....	number .. 1 722
Total fringe benefits .....	\$1,000 .. 10 142 749	Establishments with 20 to 99 employees .....	number .. 744
Production workers, average for year .....	number .. 626 881	Establishments with 100 employees or more .....	number .. 530
Production workers on March 12 .....	number .. 623 163	All employees .....	number .. 227 001
Production workers on May 12 .....	number .. 627 097	Total compensation .....	\$1,000 .. 6 929 988
Production workers on August 12 .....	number .. 626 322	Annual payroll .....	\$1,000 .. 5 580 639
Production workers on November 12 .....	number .. 630 942	Total fringe benefits .....	\$1,000 .. 1 349 349
Production-worker hours .....	1,000 .. 1 299 481	Production workers, average for year .....	number .. 182 043
Production-worker wages .....	\$1,000 .. 23 377 382	Production workers on March 12 .....	number .. 181 875
Total cost of materials .....	\$1,000 .. 120 632 388	Production workers on May 12 .....	number .. 181 783
Cost of materials, parts, containers, etc., consumed .....	\$1,000 .. 110 472 915	Production workers on August 12 .....	number .. 181 728
Cost of resales .....	\$1,000 .. 3 892 732	Production workers on November 12 .....	number .. 182 786
Cost of fuels .....	\$1,000 .. 1 020 311	Production-worker hours .....	1,000 .. 360 610
Cost of purchased electricity .....	\$1,000 .. 1 766 787	Production-worker wages .....	\$1,000 .. 3 891 078
Cost of contract work .....	\$1,000 .. 3 479 643	Total cost of materials .....	\$1,000 .. 22 608 005
Quantity of electricity purchased for heat and power .....	1,000 kWh .. 31 767 270	Cost of materials, parts, containers, etc., consumed .....	\$1,000 .. 20 028 853
Quantity of electricity generated less sold for heat and power .....	1,000 kWh .. 1 827 546	Cost of resales .....	\$1,000 .. 1 207 245
Total value of shipments .....	\$1,000 .. 213 996 415	Cost of fuels .....	\$1,000 .. 335 312
Value added .....	\$1,000 .. 93 366 860	Cost of purchased electricity .....	\$1,000 .. 512 112
Total inventories, beginning of year .....	\$1,000 .. 15 301 537	Cost of contract work .....	\$1,000 .. 524 483
Finished goods inventories, beginning of year .....	\$1,000 .. 4 460 395	Quantity of electricity purchased for heat and power .....	1,000 kWh .. 10 840 847
Work-in-process inventories, beginning of year .....	\$1,000 .. 5 177 667	Quantity of electricity generated less sold for heat and power .....	1,000 kWh .. 2 616 315
Materials and supplies inventories, beginning of year .....	\$1,000 .. 5 663 475	Total value of shipments .....	\$1,000 .. 39 821 220
Total inventories, end of year .....	\$1,000 .. 15 419 744	Value added .....	\$1,000 .. 17 184 299
Finished goods inventories, end of year .....	\$1,000 .. 4 507 607	Total inventories, beginning of year .....	\$1,000 .. 4 056 703
Work-in-process inventories, end of year .....	\$1,000 .. 5 129 833	Finished goods inventories, beginning of year .....	\$1,000 .. 1 614 559
Materials and supplies inventories, end of year .....	\$1,000 .. 5 782 304	Work-in-process inventories, beginning of year .....	\$1,000 .. 860 631
Gross book value of total assets at beginning of year .....	\$1,000 .. 75 570 411	Materials and supplies inventories, beginning of year .....	\$1,000 .. 1 581 513
Total capital expenditures (new and used) .....	\$1,000 .. 9 397 575	Total inventories, end of year .....	\$1,000 .. 3 935 454
Capital expenditures for buildings and other structures (new and used) .....	\$1,000 .. 1 160 916	Finished goods inventories, end of year .....	\$1,000 .. 1 576 872
Capital expenditures for machinery and equipment (new and used) .....	\$1,000 .. 8 236 659	Work-in-process inventories, end of year .....	\$1,000 .. 771 227
Total retirements .....	\$1,000 .. 4 544 134	Materials and supplies inventories, end of year .....	\$1,000 .. 1 587 355
Gross book value of total assets at end of year .....	\$1,000 .. 80 423 852		

Table 2-3. Detailed Statistics for States: 1997—Con.

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

Item	Value	Item	Value
<b>MISSISSIPPI—Con.</b>		<b>MONTANA—Con.</b>	
Gross book value of total assets at beginning of year	\$1,000.. 16 589 141	Total inventories, beginning of year	\$1,000.. 525 119
Total capital expenditures (new and used)	\$1,000.. 1 407 858	Finished goods inventories, beginning of year	\$1,000.. 192 177
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 222 518	Work-in-process inventories, beginning of year	\$1,000.. 111 419
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 185 340	Materials and supplies inventories, beginning of year	\$1,000.. 221 523
Total retirements	\$1,000.. 388 490	Total inventories, end of year	\$1,000.. 511 799
Gross book value of total assets at end of year	\$1,000.. 17 608 509	Finished goods inventories, end of year	\$1,000.. 193 236
Total depreciation during year	\$1,000.. 1 000 390	Work-in-process inventories, end of year	\$1,000.. 88 672
Total rental payments	\$1,000.. 335 868	Materials and supplies inventories, end of year	\$1,000.. 229 891
Buildings and other structures rental payments	\$1,000.. 205 893	Gross book value of total assets at beginning of year	\$1,000.. 2 113 169
Machinery and equipment rental payments	\$1,000.. 129 975	Total capital expenditures (new and used)	\$1,000.. 150 462
<b>MISSOURI</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 22 458
Companies <sup>1</sup>	number.. 6 869	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 128 004
All establishments	number.. 7 477	Total retirements	\$1,000.. 62 030
Establishments with 1 to 19 employees	number.. 4 995	Gross book value of total assets at end of year	\$1,000.. 2 201 601
Establishments with 20 to 99 employees	number.. 1 714	Total depreciation during year	\$1,000.. 112 946
Establishments with 100 employees or more	number.. 768	Total rental payments	\$1,000.. 26 448
All employees	number.. 367 549	Buildings and other structures rental payments	\$1,000.. 10 051
Total compensation	\$1,000.. 14 571 564	Machinery and equipment rental payments	\$1,000.. 16 397
Annual payroll	\$1,000.. 11 551 114	<b>NEBRASKA</b>	
Total fringe benefits	\$1,000.. 3 020 450	Companies <sup>1</sup>	number.. 1 799
Production workers, average for year	number.. 267 979	All establishments	number.. 1 958
Production workers on March 12	number.. 266 963	Establishments with 1 to 19 employees	number.. 1 348
Production workers on May 12	number.. 266 447	Establishments with 20 to 99 employees	number.. 390
Production workers on August 12	number.. 268 998	Establishments with 100 employees or more	number.. 220
Production workers on November 12	number.. 269 508	All employees	number.. 106 556
Production-worker hours	1,000.. 526 652	Total compensation	\$1,000.. 3 816 651
Production-worker wages	\$1,000.. 7 135 310	Annual payroll	\$1,000.. 3 034 134
Total cost of materials	\$1,000.. 47 323 830	Total fringe benefits	\$1,000.. 782 517
Cost of materials, parts, containers, etc., consumed	\$1,000.. 44 084 389	Production workers, average for year	number.. 83 975
Cost of resales	\$1,000.. 1 619 553	Production workers on March 12	number.. 83 035
Cost of fuels	\$1,000.. 358 043	Production workers on May 12	number.. 83 437
Cost of purchased electricity	\$1,000.. 672 481	Production workers on August 12	number.. 84 420
Cost of contract work	\$1,000.. 589 364	Production workers on November 12	number.. 85 008
Quantity of electricity purchased for heat and power	1,000 kWh.. 13 854 281	Production-worker hours	1,000.. 172 999
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 28 841	Production-worker wages	\$1,000.. 2 129 405
Total value of shipments	\$1,000.. 92 745 261	Total cost of materials	\$1,000.. 17 459 386
Value added	\$1,000.. 43 071 878	Cost of materials, parts, containers, etc., consumed	\$1,000.. 15 549 637
Total inventories, beginning of year	\$1,000.. 9 747 260	Cost of resales	\$1,000.. 1 466 317
Finished goods inventories, beginning of year	\$1,000.. 2 537 573	Cost of fuels	\$1,000.. 127 828
Work-in-process inventories, beginning of year	\$1,000.. 4 033 680	Cost of purchased electricity	\$1,000.. 186 336
Materials and supplies inventories, beginning of year	\$1,000.. 3 176 007	Cost of contract work	\$1,000.. 129 268
Total inventories, end of year	\$1,000.. 7 340 566	Quantity of electricity purchased for heat and power	1,000 kWh.. 5 350 875
Finished goods inventories, end of year	\$1,000.. 2 558 551	Quantity of electricity generated less sold for heat and power	1,000 kWh.. 78 970
Work-in-process inventories, end of year	\$1,000.. 1 663 531	Total value of shipments	\$1,000.. 27 939 376
Materials and supplies inventories, end of year	\$1,000.. 3 118 484	Value added	\$1,000.. 10 460 265
Gross book value of total assets at beginning of year	\$1,000.. 26 347 919	Total inventories, beginning of year	\$1,000.. 2 059 993
Total capital expenditures (new and used)	\$1,000.. 2 656 471	Finished goods inventories, beginning of year	\$1,000.. 839 942
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 443 582	Work-in-process inventories, beginning of year	\$1,000.. 481 131
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 2 212 889	Materials and supplies inventories, beginning of year	\$1,000.. 738 920
Total retirements	\$1,000.. 889 530	Total inventories, end of year	\$1,000.. 2 051 424
Gross book value of total assets at end of year	\$1,000.. 28 114 860	Finished goods inventories, end of year	\$1,000.. 886 003
Total depreciation during year	\$1,000.. 1 969 010	Work-in-process inventories, end of year	\$1,000.. 418 842
Total rental payments	\$1,000.. 618 232	Materials and supplies inventories, end of year	\$1,000.. 746 579
Buildings and other structures rental payments	\$1,000.. 207 346	Gross book value of total assets at beginning of year	\$1,000.. 7 210 172
Machinery and equipment rental payments	\$1,000.. 410 886	Total capital expenditures (new and used)	\$1,000.. 712 776
<b>MONTANA</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 155 651
Companies <sup>1</sup>	number.. 1 125	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 566 125
All establishments	number.. 1 158	Total retirements	\$1,000.. 176 463
Establishments with 1 to 19 employees	number.. 980	Gross book value of total assets at end of year	\$1,000.. 7 755 485
Establishments with 20 to 99 employees	number.. 139	Total depreciation during year	\$1,000.. 484 614
Establishments with 100 employees or more	number.. 39	Total rental payments	\$1,000.. 148 177
All employees	number.. 19 478	Buildings and other structures rental payments	\$1,000.. 61 865
Total compensation	\$1,000.. 707 577	Machinery and equipment rental payments	\$1,000.. 86 312
Annual payroll	\$1,000.. 557 878	<b>NEVADA</b>	
Total fringe benefits	\$1,000.. 149 699	Companies <sup>1</sup>	number.. 1 565
Production workers, average for year	number.. 14 884	All establishments	number.. 1 610
Production workers on March 12	number.. 14 570	Establishments with 1 to 19 employees	number.. 1 207
Production workers on May 12	number.. 14 762	Establishments with 20 to 99 employees	number.. 334
Production workers on August 12	number.. 15 156	Establishments with 100 employees or more	number.. 69
Production workers on November 12	number.. 15 048	All employees	number.. 37 473
Production-worker hours	1,000.. 27 386	Total compensation	\$1,000.. 1 443 655
Production-worker wages	\$1,000.. 392 709	Annual payroll	\$1,000.. 1 164 476
Total cost of materials	\$1,000.. 3 105 758	Total fringe benefits	\$1,000.. 279 179
Cost of materials, parts, containers, etc., consumed	\$1,000.. 2 741 825	Production workers, average for year	number.. 26 040
Cost of resales	\$1,000.. 102 868	Production workers on March 12	number.. 25 839
Cost of fuels	\$1,000.. 67 742	Production workers on May 12	number.. 25 827
Cost of purchased electricity	\$1,000.. 144 744	Production workers on August 12	number.. 26 313
Cost of contract work	\$1,000.. 48 579	Production workers on November 12	number.. 26 181
Quantity of electricity purchased for heat and power	1,000 kWh.. 5 140 408	Production-worker hours	1,000.. 51 573
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 21 761	Production-worker wages	\$1,000.. 670 749
Total value of shipments	\$1,000.. 5 004 527		
Value added	\$1,000.. 1 876 897		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>NEVADA—Con.</b>		<b>NEW JERSEY—Con.</b>	
Total cost of materials .....	\$1,000.. 3 025 752	Production workers, average for year .....	number.. 274 363
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 2 673 319	Production workers on March 12 .....	number.. 273 626
Cost of resales .....	\$1,000.. 143 702	Production workers on May 12 .....	number.. 274 819
Cost of fuels .....	\$1,000.. 44 379	Production workers on August 12 .....	number.. 274 121
Cost of purchased electricity .....	\$1,000.. 74 240	Production workers on November 12 .....	number.. 274 886
Cost of contract work .....	\$1,000.. 90 112	Production-worker hours .....	1,000.. 555 738
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 526 166	Production-worker wages .....	\$1,000.. 8 112 739
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 7 555	Total cost of materials .....	\$1,000.. 46 768 915
Total value of shipments .....	\$1,000.. 6 297 518	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 39 316 637
Value added .....	\$1,000.. 3 260 969	Cost of resales .....	\$1,000.. 4 319 685
Total inventories, beginning of year .....	\$1,000.. 764 143	Cost of fuels .....	\$1,000.. 4 541 725
Finished goods inventories, beginning of year .....	\$1,000.. 285 849	Cost of purchased electricity .....	\$1,000.. 972 673
Work-in-process inventories, beginning of year .....	\$1,000.. 132 943	Cost of contract work .....	\$1,000.. 1 618 195
Materials and supplies inventories, beginning of year .....	\$1,000.. 345 351	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 12 307 552
Total inventories, end of year .....	\$1,000.. 792 326	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 856 674
Finished goods inventories, end of year .....	\$1,000.. 281 344	Total value of shipments .....	\$1,000.. 96 179 751
Work-in-process inventories, end of year .....	\$1,000.. 128 284	Value added .....	\$1,000.. 49 432 983
Materials and supplies inventories, end of year .....	\$1,000.. 382 698	Total inventories, beginning of year .....	\$1,000.. 11 217 486
Gross book value of total assets at beginning of year .....	\$1,000.. 3 161 017	Finished goods inventories, beginning of year .....	\$1,000.. 4 610 631
Total capital expenditures (new and used) .....	\$1,000.. 311 537	Work-in-process inventories, beginning of year .....	\$1,000.. 2 781 448
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 63 230	Materials and supplies inventories, beginning of year .....	\$1,000.. 3 825 407
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 248 307	Total inventories, end of year .....	\$1,000.. 11 393 843
Total retirements .....	\$1,000.. 120 603	Finished goods inventories, end of year .....	\$1,000.. 4 533 176
Gross book value of total assets at end of year .....	\$1,000.. 3 351 951	Work-in-process inventories, end of year .....	\$1,000.. 2 885 041
Total depreciation during year .....	\$1,000.. 242 774	Materials and supplies inventories, end of year .....	\$1,000.. 3 975 626
Total rental payments .....	\$1,000.. 83 556	Gross book value of total assets at beginning of year .....	\$1,000.. 32 702 286
Buildings and other structures rental payments .....	\$1,000.. 40 809	Total capital expenditures (new and used) .....	\$1,000.. 3 096 106
Machinery and equipment rental payments .....	\$1,000.. 42 747	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 581 372
<b>NEW HAMPSHIRE</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 514 734
Companies <sup>1</sup> .....	number.. 2 239	Total retirements .....	\$1,000.. 1 067 015
All establishments .....	number.. 2 321	Gross book value of total assets at end of year .....	\$1,000.. 34 731 377
Establishments with 1 to 19 employees .....	number.. 1 570	Total depreciation during year .....	\$1,000.. 2 174 737
Establishments with 20 to 99 employees .....	number.. 557	Total rental payments .....	\$1,000.. 847 410
Establishments with 100 employees or more .....	number.. 194	Buildings and other structures rental payments .....	\$1,000.. 453 952
All employees .....	number.. 97 928	Machinery and equipment rental payments .....	\$1,000.. 393 458
Total compensation .....	\$1,000.. 4 124 367	<b>NEW MEXICO</b>	
Annual payroll .....	\$1,000.. 3 318 423	Companies <sup>1</sup> .....	number.. 1 557
Total fringe benefits .....	\$1,000.. 805 944	All establishments .....	number.. 1 588
Production workers, average for year .....	number.. 68 228	Establishments with 1 to 19 employees .....	number.. 1 298
Production workers on March 12 .....	number.. 67 665	Establishments with 20 to 99 employees .....	number.. 227
Production workers on May 12 .....	number.. 67 991	Establishments with 100 employees or more .....	number.. 63
Production workers on August 12 .....	number.. 68 413	All employees .....	number.. 39 539
Production workers on November 12 .....	number.. 68 843	Total compensation .....	\$1,000.. 1 418 224
Production-worker hours .....	1,000.. 134 236	Annual payroll .....	\$1,000.. 1 131 505
Production-worker wages .....	\$1,000.. 1 920 807	Total fringe benefits .....	\$1,000.. 286 719
Total cost of materials .....	\$1,000.. 8 528 850	Production workers, average for year .....	number.. 29 244
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 6 795 005	Production workers on March 12 .....	number.. 28 464
Cost of resales .....	\$1,000.. 1 189 498	Production workers on May 12 .....	number.. 28 510
Cost of fuels .....	\$1,000.. 80 626	Production workers on August 12 .....	number.. 30 367
Cost of purchased electricity .....	\$1,000.. 189 269	Production workers on November 12 .....	number.. 29 635
Cost of contract work .....	\$1,000.. 274 452	Production-worker hours .....	1,000.. 56 972
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 2 155 688	Production-worker wages .....	\$1,000.. 718 570
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 282 512	Total cost of materials .....	\$1,000.. 4 675 305
Total value of shipments .....	\$1,000.. 19 663 103	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 4 239 771
Value added .....	\$1,000.. 11 129 674	Cost of resales .....	\$1,000.. 146 022
Total inventories, beginning of year .....	\$1,000.. 2 452 670	Cost of fuels .....	\$1,000.. 87 662
Finished goods inventories, beginning of year .....	\$1,000.. 696 562	Cost of purchased electricity .....	\$1,000.. 108 266
Work-in-process inventories, beginning of year .....	\$1,000.. 846 252	Cost of contract work .....	\$1,000.. 93 584
Materials and supplies inventories, beginning of year .....	\$1,000.. 909 856	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 975 751
Total inventories, end of year .....	\$1,000.. 2 558 976	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 122 652
Finished goods inventories, end of year .....	\$1,000.. 756 140	Total value of shipments .....	\$1,000.. 18 096 992
Work-in-process inventories, end of year .....	\$1,000.. 779 795	Value added .....	\$1,000.. 13 487 517
Materials and supplies inventories, end of year .....	\$1,000.. 1 023 041	Total inventories, beginning of year .....	\$1,000.. 816 707
Gross book value of total assets at beginning of year .....	\$1,000.. 5 985 811	Finished goods inventories, beginning of year .....	\$1,000.. 230 515
Total capital expenditures (new and used) .....	\$1,000.. 700 466	Work-in-process inventories, beginning of year .....	\$1,000.. 318 392
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 115 388	Materials and supplies inventories, beginning of year .....	\$1,000.. 267 800
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 585 078	Total inventories, end of year .....	\$1,000.. 884 852
Total retirements .....	\$1,000.. 209 460	Finished goods inventories, end of year .....	\$1,000.. 226 623
Gross book value of total assets at end of year .....	\$1,000.. 6 476 817	Work-in-process inventories, end of year .....	\$1,000.. 378 172
Total depreciation during year .....	\$1,000.. 480 816	Materials and supplies inventories, end of year .....	\$1,000.. 280 057
Total rental payments .....	\$1,000.. 132 473	Gross book value of total assets at beginning of year .....	\$1,000.. 11 850 880
Buildings and other structures rental payments .....	\$1,000.. 69 310	Total capital expenditures (new and used) .....	\$1,000.. 572 910
Machinery and equipment rental payments .....	\$1,000.. 63 163	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 88 089
<b>NEW JERSEY</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 484 821
Companies <sup>1</sup> .....	number.. 11 303	Total retirements .....	\$1,000.. 671 898
All establishments .....	number.. 11 788	Gross book value of total assets at end of year .....	\$1,000.. 11 751 892
Establishments with 1 to 19 employees .....	number.. 7 979	Total depreciation during year .....	\$1,000.. 1 035 001
Establishments with 20 to 99 employees .....	number.. 2 930	Total rental payments .....	\$1,000.. 89 655
Establishments with 100 employees or more .....	number.. 879	Buildings and other structures rental payments .....	\$1,000.. 40 808
All employees .....	number.. 407 272	Machinery and equipment rental payments .....	\$1,000.. 48 847
Total compensation .....	\$1,000.. 19 075 917	<b>MANUFACTURING—SUBJECT SERIES</b>	
Annual payroll .....	\$1,000.. 15 314 686	<b>GENERAL SUMMARY—GEOG. AREA STATISTICS 2-73</b>	
Total fringe benefits .....	\$1,000.. 3 761 231		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>NEW YORK</b>		<b>NORTH CAROLINA—Con.</b>	
Companies <sup>1</sup> .....	number.. 23 111	Total depreciation during year .....	\$1,000.. 3 612 824
All establishments .....	number.. 23 862	Total rental payments .....	\$1,000.. 880 840
Establishments with 1 to 19 employees .....	number.. 17 209	Buildings and other structures rental payments .....	\$1,000.. 366 402
Establishments with 20 to 99 employees .....	number.. 5 210	Machinery and equipment rental payments .....	\$1,000.. 514 438
Establishments with 100 employees or more .....	number.. 1 443	<b>NORTH DAKOTA</b>	
All employees .....	number.. 778 833	Companies <sup>1</sup> .....	number.. 664
Total compensation .....	\$1,000.. 32 910 270	All establishments .....	number.. 702
Annual payroll .....	\$1,000.. 26 319 424	Establishments with 1 to 19 employees .....	number.. 514
Total fringe benefits .....	\$1,000.. 6 590 846	Establishments with 20 to 99 employees .....	number.. 139
Production workers, average for year .....	number.. 533 795	Establishments with 100 employees or more .....	number.. 49
Production workers on March 12 .....	number.. 529 221	All employees .....	number.. 21 948
Production workers on May 12 .....	number.. 532 691	Total compensation .....	\$1,000.. 761 199
Production workers on August 12 .....	number.. 535 099	Annual payroll .....	\$1,000.. 604 532
Production workers on November 12 .....	number.. 538 169	Total fringe benefits .....	\$1,000.. 156 667
Production-worker hours .....	1,000.. 1 049 318	Production workers, average for year .....	number.. 16 359
Production-worker wages .....	\$1,000.. 14 577 589	Production workers on March 12 .....	number.. 16 047
Total cost of materials .....	\$1,000.. 68 693 723	Production workers on May 12 .....	number.. 16 252
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 58 251 721	Production workers on August 12 .....	number.. 16 458
Cost of resales .....	\$1,000.. 4 993 098	Production workers on November 12 .....	number.. 16 679
Cost of fuels .....	\$1,000.. 819 958	Production-worker hours .....	1,000.. 31 447
Cost of purchased electricity .....	\$1,000.. 1 541 651	Production-worker wages .....	\$1,000.. 386 806
Cost of contract work .....	\$1,000.. 3 087 295	Total cost of materials .....	\$1,000.. 3 297 443
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 25 164 698	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 3 086 206
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 1 573 549	Cost of resales .....	\$1,000.. 109 967
Total value of shipments .....	\$1,000.. 145 019 529	Cost of fuels .....	\$1,000.. 39 152
Value added .....	\$1,000.. 75 858 926	Cost of purchased electricity .....	\$1,000.. 38 372
Total inventories, beginning of year .....	\$1,000.. 17 451 899	Cost of contract work .....	\$1,000.. 23 746
Finished goods inventories, beginning of year .....	\$1,000.. 5 897 089	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 838 514
Work-in-process inventories, beginning of year .....	\$1,000.. 5 787 798	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 181 275
Materials and supplies inventories, beginning of year .....	\$1,000.. 5 767 012	Total value of shipments .....	\$1,000.. 5 295 480
Total inventories, end of year .....	\$1,000.. 17 347 479	Value added .....	\$1,000.. 2 008 799
Finished goods inventories, end of year .....	\$1,000.. 5 853 574	Total inventories, beginning of year .....	\$1,000.. 565 003
Work-in-process inventories, end of year .....	\$1,000.. 5 444 166	Finished goods inventories, beginning of year .....	\$1,000.. 229 204
Materials and supplies inventories, end of year .....	\$1,000.. 6 049 739	Work-in-process inventories, beginning of year .....	\$1,000.. 68 742
Gross book value of total assets at beginning of year .....	\$1,000.. 54 048 984	Materials and supplies inventories, beginning of year .....	\$1,000.. 267 057
Total capital expenditures (new and used) .....	\$1,000.. 5 626 038	Total inventories, end of year .....	\$1,000.. 590 620
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 967 243	Finished goods inventories, end of year .....	\$1,000.. 232 375
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 658 795	Work-in-process inventories, end of year .....	\$1,000.. 87 194
Total retirements .....	\$1,000.. 1 839 772	Materials and supplies inventories, end of year .....	\$1,000.. 271 051
Gross book value of total assets at end of year .....	\$1,000.. 57 835 250	Gross book value of total assets at beginning of year .....	\$1,000.. 1 484 953
Total depreciation during year .....	\$1,000.. 3 791 279	Total capital expenditures (new and used) .....	\$1,000.. 201 019
Total rental payments .....	\$1,000.. 1 289 446	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 39 356
Buildings and other structures rental payments .....	\$1,000.. 660 715	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 161 663
Machinery and equipment rental payments .....	\$1,000.. 628 731	Total retirements .....	\$1,000.. 43 181
<b>NORTH CAROLINA</b>		Gross book value of total assets at end of year .....	\$1,000.. 1 642 791
Companies <sup>1</sup> .....	number.. 9 841	Total depreciation during year .....	\$1,000.. 99 098
All establishments .....	number.. 11 276	Total rental payments .....	\$1,000.. 30 166
Establishments with 1 to 19 employees .....	number.. 6 676	Buildings and other structures rental payments .....	\$1,000.. 11 763
Establishments with 20 to 99 employees .....	number.. 2 833	Machinery and equipment rental payments .....	\$1,000.. 18 403
Establishments with 100 employees or more .....	number.. 1 767	<b>OHIO</b>	
All employees .....	number.. 771 474	Companies <sup>1</sup> .....	number.. 16 154
Total compensation .....	\$1,000.. 26 503 401	All establishments .....	number.. 17 921
Annual payroll .....	\$1,000.. 21 202 451	Establishments with 1 to 19 employees .....	number.. 11 066
Total fringe benefits .....	\$1,000.. 5 300 950	Establishments with 20 to 99 employees .....	number.. 4 783
Production workers, average for year .....	number.. 599 534	Establishments with 100 employees or more .....	number.. 2 072
Production workers on March 12 .....	number.. 599 873	All employees .....	number.. 980 133
Production workers on May 12 .....	number.. 598 206	Total compensation .....	\$1,000.. 46 184 994
Production workers on August 12 .....	number.. 599 687	Annual payroll .....	\$1,000.. 35 811 374
Production workers on November 12 .....	number.. 600 370	Total fringe benefits .....	\$1,000.. 10 373 620
Production-worker hours .....	1,000.. 1 192 012	Production workers, average for year .....	number.. 727 110
Production-worker wages .....	\$1,000.. 13 992 938	Production workers on March 12 .....	number.. 724 140
Total cost of materials .....	\$1,000.. 83 038 366	Production workers on May 12 .....	number.. 724 766
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 71 962 817	Production workers on August 12 .....	number.. 729 999
Cost of resales .....	\$1,000.. 7 257 200	Production workers on November 12 .....	number.. 729 535
Cost of fuels .....	\$1,000.. 781 788	Production-worker hours .....	1,000.. 1 494 596
Cost of purchased electricity .....	\$1,000.. 1 672 363	Production-worker wages .....	\$1,000.. 23 489 758
Cost of contract work .....	\$1,000.. 1 364 198	Total cost of materials .....	\$1,000.. 129 408 857
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 33 906 515	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 115 650 944
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 433 537	Cost of resales .....	\$1,000.. 6 205 554
Total value of shipments .....	\$1,000.. 162 805 526	Cost of fuels .....	\$1,000.. 1 556 833
Value added .....	\$1,000.. 79 790 807	Cost of purchased electricity .....	\$1,000.. 2 815 681
Total inventories, beginning of year .....	\$1,000.. 17 014 528	Cost of contract work .....	\$1,000.. 3 179 845
Finished goods inventories, beginning of year .....	\$1,000.. 5 969 303	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 65 676 908
Work-in-process inventories, beginning of year .....	\$1,000.. 4 111 632	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 23 489 758
Materials and supplies inventories, beginning of year .....	\$1,000.. 6 933 593	Total value of shipments .....	\$1,000.. 241 489 801
Total inventories, end of year .....	\$1,000.. 17 095 484	Value added .....	\$1,000.. 112 361 392
Finished goods inventories, end of year .....	\$1,000.. 6 253 923	Total inventories, beginning of year .....	\$1,000.. 22 164 090
Work-in-process inventories, end of year .....	\$1,000.. 3 909 237	Finished goods inventories, beginning of year .....	\$1,000.. 7 927 170
Materials and supplies inventories, end of year .....	\$1,000.. 6 932 324	Work-in-process inventories, beginning of year .....	\$1,000.. 6 196 154
Gross book value of total assets at beginning of year .....	\$1,000.. 56 855 377	Materials and supplies inventories, beginning of year .....	\$1,000.. 8 040 766
Total capital expenditures (new and used) .....	\$1,000.. 5 214 477	Total inventories, end of year .....	\$1,000.. 22 526 791
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 741 593	Finished goods inventories, end of year .....	\$1,000.. 8 138 742
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 472 884	Work-in-process inventories, end of year .....	\$1,000.. 6 267 287
Total retirements .....	\$1,000.. 1 568 294	Materials and supplies inventories, end of year .....	\$1,000.. 8 120 762
Gross book value of total assets at end of year .....	\$1,000.. 60 501 560		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>OHIO—Con.</b>		<b>OREGON—Con.</b>	
Gross book value of total assets at beginning of year .....	\$1,000.. 85 739 658	Total inventories, beginning of year .....	\$1,000.. 5 095 184
Total capital expenditures (new and used) .....	\$1,000.. 8 851 039	Finished goods inventories, beginning of year .....	\$1,000.. 1 822 413
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 1 230 190	Work-in-process inventories, beginning of year .....	\$1,000.. 1 355 968
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 7 620 849	Materials and supplies inventories, beginning of year .....	\$1,000.. 1 916 803
Total retirements .....	\$1,000.. 2 911 367	Total inventories, end of year .....	\$1,000.. 5 367 565
Gross book value of total assets at end of year .....	\$1,000.. 91 679 380	Finished goods inventories, end of year .....	\$1,000.. 1 890 482
Total depreciation during year .....	\$1,000.. 5 666 096	Work-in-process inventories, end of year .....	\$1,000.. 1 390 887
Total rental payments .....	\$1,000.. 1 694 885	Materials and supplies inventories, end of year .....	\$1,000.. 2 086 196
Buildings and other structures rental payments .....	\$1,000.. 717 873	Gross book value of total assets at beginning of year .....	\$1,000.. 22 379 862
Machinery and equipment rental payments .....	\$1,000.. 976 992	Total capital expenditures (new and used) .....	\$1,000.. 3 018 411
<b>OKLAHOMA</b>		Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 755 973
Companies <sup>1</sup> .....	number.. 3 808	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 2 262 438
All establishments .....	number.. 4 079	Total retirements .....	\$1,000.. 903 700
Establishments with 1 to 19 employees .....	number.. 2 892	Gross book value of total assets at end of year .....	\$1,000.. 24 494 573
Establishments with 20 to 99 employees .....	number.. 832	Total depreciation during year .....	\$1,000.. 1 649 100
Establishments with 100 employees or more .....	number.. 355	Total rental payments .....	\$1,000.. 403 839
All employees .....	number.. 163 812	Buildings and other structures rental payments .....	\$1,000.. 201 909
Total compensation .....	\$1,000.. 6 321 782	Machinery and equipment rental payments .....	\$1,000.. 201 930
Annual payroll .....	\$1,000.. 4 967 086	<b>PENNSYLVANIA</b>	
Total fringe benefits .....	\$1,000.. 1 354 696	Companies <sup>1</sup> .....	number.. 15 729
Production workers, average for year .....	number.. 122 352	All establishments .....	number.. 17 087
Production workers on March 12 .....	number.. 121 573	Establishments with 1 to 19 employees .....	number.. 10 768
Production workers on May 12 .....	number.. 121 985	Establishments with 20 to 99 employees .....	number.. 4 473
Production workers on August 12 .....	number.. 122 563	Establishments with 100 employees or more .....	number.. 1 846
Production workers on November 12 .....	number.. 123 287	All employees .....	number.. 820 204
Production-worker hours .....	1,000.. 241 863	Total compensation .....	\$1,000.. 34 753 342
Production-worker wages .....	\$1,000.. 3 222 983	Annual payroll .....	\$1,000.. 27 528 493
Total cost of materials .....	\$1,000.. 20 228 803	Total fringe benefits .....	\$1,000.. 7 224 849
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 18 277 702	Production workers, average for year .....	number.. 593 401
Cost of resales .....	\$1,000.. 937 291	Production workers on March 12 .....	number.. 589 489
Cost of fuels .....	\$1,000.. 291 059	Production workers on May 12 .....	number.. 592 291
Cost of purchased electricity .....	\$1,000.. 320 547	Production workers on August 12 .....	number.. 596 917
Cost of contract work .....	\$1,000.. 402 204	Production workers on November 12 .....	number.. 594 907
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 8 797 405	Production-worker hours .....	1,000.. 1 187 997
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D	Production-worker wages .....	\$1,000.. 17 002 772
Total value of shipments .....	\$1,000.. 37 423 437	Total cost of materials .....	\$1,000.. 86 181 634
Value added .....	\$1,000.. 17 226 649	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 74 964 249
Total inventories, beginning of year .....	\$1,000.. 3 787 034	Cost of resales .....	\$1,000.. 5 651 696
Finished goods inventories, beginning of year .....	\$1,000.. 1 405 711	Cost of fuels .....	\$1,000.. 1 333 335
Work-in-process inventories, beginning of year .....	\$1,000.. 1 032 833	Cost of purchased electricity .....	\$1,000.. 1 890 808
Materials and supplies inventories, beginning of year .....	\$1,000.. 1 348 490	Cost of contract work .....	\$1,000.. 2 341 546
Total inventories, end of year .....	\$1,000.. 3 945 605	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 33 976 662
Finished goods inventories, end of year .....	\$1,000.. 1 463 319	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 3 121 852
Work-in-process inventories, end of year .....	\$1,000.. 1 008 871	Total value of shipments .....	\$1,000.. 171 494 390
Materials and supplies inventories, end of year .....	\$1,000.. 1 473 415	Value added .....	\$1,000.. 86 116 509
Gross book value of total assets at beginning of year .....	\$1,000.. 13 204 556	Total inventories, beginning of year .....	\$1,000.. 20 175 812
Total capital expenditures (new and used) .....	\$1,000.. 1 082 614	Finished goods inventories, beginning of year .....	\$1,000.. 7 536 030
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 121 381	Work-in-process inventories, beginning of year .....	\$1,000.. 6 161 712
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 961 233	Materials and supplies inventories, beginning of year .....	\$1,000.. 6 478 070
Total retirements .....	\$1,000.. 360 668	Total inventories, end of year .....	\$1,000.. 21 222 228
Gross book value of total assets at end of year .....	\$1,000.. 13 926 502	Finished goods inventories, end of year .....	\$1,000.. 7 915 023
Total depreciation during year .....	\$1,000.. 812 802	Work-in-process inventories, end of year .....	\$1,000.. 6 612 761
Total rental payments .....	\$1,000.. 182 494	Materials and supplies inventories, end of year .....	\$1,000.. 6 694 444
Buildings and other structures rental payments .....	\$1,000.. 80 978	Gross book value of total assets at beginning of year .....	\$1,000.. 63 599 745
Machinery and equipment rental payments .....	\$1,000.. 101 516	Total capital expenditures (new and used) .....	\$1,000.. 6 840 011
<b>OREGON</b>		Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 1 066 310
Companies <sup>1</sup> .....	number.. 5 415	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 5 773 701
All establishments .....	number.. 5 749	Total retirements .....	\$1,000.. 1 841 458
Establishments with 1 to 19 employees .....	number.. 4 087	Gross book value of total assets at end of year .....	\$1,000.. 68 612 811
Establishments with 20 to 99 employees .....	number.. 1 194	Total depreciation during year .....	\$1,000.. 4 433 647
Establishments with 100 employees or more .....	number.. 468	Total rental payments .....	\$1,000.. 1 170 437
All employees .....	number.. 211 329	Buildings and other structures rental payments .....	\$1,000.. 547 670
Total compensation .....	\$1,000.. 8 819 848	Machinery and equipment rental payments .....	\$1,000.. 622 614
Annual payroll .....	\$1,000.. 7 045 200	<b>RHODE ISLAND</b>	
Total fringe benefits .....	\$1,000.. 1 774 648	Companies <sup>1</sup> .....	number.. 2 469
Production workers, average for year .....	number.. 157 068	All establishments .....	number.. 2 526
Production workers on March 12 .....	number.. 152 497	Establishments with 1 to 19 employees .....	number.. 1 830
Production workers on May 12 .....	number.. 155 234	Establishments with 20 to 99 employees .....	number.. 549
Production workers on August 12 .....	number.. 162 935	Establishments with 100 employees or more .....	number.. 147
Production workers on November 12 .....	number.. 157 606	All employees .....	number.. 74 666
Production-worker hours .....	1,000.. 314 114	Total compensation .....	\$1,000.. 2 773 402
Production-worker wages .....	\$1,000.. 4 513 660	Annual payroll .....	\$1,000.. 2 264 507
Total cost of materials .....	\$1,000.. 22 613 809	Total fringe benefits .....	\$1,000.. 508 895
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 19 818 261	Production workers, average for year .....	number.. 52 213
Cost of resales .....	\$1,000.. 1 380 180	Production workers on March 12 .....	number.. 51 824
Cost of fuels .....	\$1,000.. 258 155	Production workers on May 12 .....	number.. 52 342
Cost of purchased electricity .....	\$1,000.. 546 783	Production workers on August 12 .....	number.. 52 072
Cost of contract work .....	\$1,000.. 610 430	Production workers on November 12 .....	number.. 52 614
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 15 275 019	Production-worker hours .....	1,000.. 103 787
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 681 514	Production-worker wages .....	\$1,000.. 1 265 607
Total value of shipments .....	\$1,000.. 47 534 802		
Value added .....	\$1,000.. 25 100 453		



**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>RHODE ISLAND—Con.</b>		<b>SOUTH DAKOTA—Con.</b>	
Total cost of materials .....	\$1,000.. 4 882 795	Production workers, average for year .....	number.. 33 041
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 4 142 423	Production workers on March 12 .....	number.. 32 273
Cost of resales .....	\$1,000.. 328 814	Production workers on May 12 .....	number.. 32 916
Cost of fuels .....	\$1,000.. 56 382	Production workers on August 12 .....	number.. 33 491
Cost of purchased electricity .....	\$1,000.. 115 314	Production workers on November 12 .....	number.. 33 484
Cost of contract work .....	\$1,000.. 239 862	Production-worker hours .....	1,000.. 64 773
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 342 531	Production-worker wages .....	\$1,000.. 703 545
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 5 907	Total cost of materials .....	\$1,000.. 7 811 807
Total value of shipments .....	\$1,000.. 10 388 007	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 7 384 358
Value added .....	\$1,000.. 5 462 493	Cost of resales .....	\$1,000.. 279 815
Total inventories, beginning of year .....	\$1,000.. 1 499 540	Cost of fuels .....	\$1,000.. 31 444
Finished goods inventories, beginning of year .....	\$1,000.. 597 609	Cost of purchased electricity .....	\$1,000.. 54 169
Work-in-process inventories, beginning of year .....	\$1,000.. 375 027	Cost of contract work .....	\$1,000.. 62 021
Materials and supplies inventories, beginning of year .....	\$1,000.. 526 904	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 199 377
Total inventories, end of year .....	\$1,000.. 1 515 893	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. —
Finished goods inventories, end of year .....	\$1,000.. 580 210	Total value of shipments .....	\$1,000.. 12 164 706
Work-in-process inventories, end of year .....	\$1,000.. 349 528	Value added .....	\$1,000.. 4 352 357
Materials and supplies inventories, end of year .....	\$1,000.. 586 155	Total inventories, beginning of year .....	\$1,000.. 929 194
Gross book value of total assets at beginning of year .....	\$1,000.. 4 107 009	Finished goods inventories, beginning of year .....	\$1,000.. 309 470
Total capital expenditures (new and used) .....	\$1,000.. 397 298	Work-in-process inventories, beginning of year .....	\$1,000.. 318 030
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 73 593	Materials and supplies inventories, beginning of year .....	\$1,000.. 301 694
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 323 705	Total inventories, end of year .....	\$1,000.. 1 000 084
Total retirements .....	\$1,000.. 97 776	Finished goods inventories, end of year .....	\$1,000.. 357 729
Gross book value of total assets at end of year .....	\$1,000.. 4 406 531	Work-in-process inventories, end of year .....	\$1,000.. 271 370
Total depreciation during year .....	\$1,000.. 294 544	Materials and supplies inventories, end of year .....	\$1,000.. 370 985
Total rental payments .....	\$1,000.. 118 939	Gross book value of total assets at beginning of year .....	\$1,000.. 1 911 300
Buildings and other structures rental payments .....	\$1,000.. 65 663	Total capital expenditures (new and used) .....	\$1,000.. 262 798
Machinery and equipment rental payments .....	\$1,000.. 53 276	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 54 760
<b>SOUTH CAROLINA</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 208 038
Companies <sup>1</sup> .....	number.. 3 935	Total retirements .....	\$1,000.. 34 661
All establishments .....	number.. 4 437	Gross book value of total assets at end of year .....	\$1,000.. 2 139 437
Establishments with 1 to 19 employees .....	number.. 2 577	Total depreciation during year .....	\$1,000.. 141 158
Establishments with 20 to 99 employees .....	number.. 1 070	Total rental payments .....	\$1,000.. 46 922
Establishments with 100 employees or more .....	number.. 790	Buildings and other structures rental payments .....	\$1,000.. 22 559
All employees .....	number.. 343 452	Machinery and equipment rental payments .....	\$1,000.. 24 363
Total compensation .....	\$1,000.. 12 852 648	<b>TENNESSEE</b>	
Annual payroll .....	\$1,000.. 10 312 408	Companies <sup>1</sup> .....	number.. 6 713
Total fringe benefits .....	\$1,000.. 2 540 240	All establishments .....	number.. 7 384
Production workers, average for year .....	number.. 265 645	Establishments with 1 to 19 employees .....	number.. 4 496
Production workers on March 12 .....	number.. 265 082	Establishments with 20 to 99 employees .....	number.. 1 823
Production workers on May 12 .....	number.. 265 658	Establishments with 100 employees or more .....	number.. 1 065
Production workers on August 12 .....	number.. 265 724	All employees .....	number.. 482 639
Production workers on November 12 .....	number.. 266 116	Total compensation .....	\$1,000.. 18 210 010
Production-worker hours .....	1,000.. 536 612	Annual payroll .....	\$1,000.. 14 329 669
Production-worker wages .....	\$1,000.. 6 814 088	Total fringe benefits .....	\$1,000.. 3 880 341
Total cost of materials .....	\$1,000.. 37 125 249	Production workers, average for year .....	number.. 374 140
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 32 968 008	Production workers on March 12 .....	number.. 374 219
Cost of resales .....	\$1,000.. 1 895 937	Production workers on May 12 .....	number.. 375 917
Cost of fuels .....	\$1,000.. 528 629	Production workers on August 12 .....	number.. 373 263
Cost of purchased electricity .....	\$1,000.. 1 136 252	Production workers on November 12 .....	number.. 373 161
Cost of contract work .....	\$1,000.. 596 423	Production-worker hours .....	1,000.. 741 421
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 29 078 781	Production-worker wages .....	\$1,000.. 9 454 387
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 925 400	Total cost of materials .....	\$1,000.. 54 195 539
Total value of shipments .....	\$1,000.. 70 384 095	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 48 439 395
Value added .....	\$1,000.. 33 343 682	Cost of resales .....	\$1,000.. 3 082 032
Total inventories, beginning of year .....	\$1,000.. 7 639 028	Cost of fuels .....	\$1,000.. 630 138
Finished goods inventories, beginning of year .....	\$1,000.. 2 847 612	Cost of purchased electricity .....	\$1,000.. 998 324
Work-in-process inventories, beginning of year .....	\$1,000.. 2 003 260	Cost of contract work .....	\$1,000.. 1 045 650
Materials and supplies inventories, beginning of year .....	\$1,000.. 2 788 156	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 23 778 266
Total inventories, end of year .....	\$1,000.. 7 891 461	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 2 234 003
Finished goods inventories, end of year .....	\$1,000.. 2 992 524	Total value of shipments .....	\$1,000.. 98 649 891
Work-in-process inventories, end of year .....	\$1,000.. 1 945 130	Value added .....	\$1,000.. 44 527 758
Materials and supplies inventories, end of year .....	\$1,000.. 2 953 807	Total inventories, beginning of year .....	\$1,000.. 9 745 034
Gross book value of total assets at beginning of year .....	\$1,000.. 36 523 212	Finished goods inventories, beginning of year .....	\$1,000.. 4 400 277
Total capital expenditures (new and used) .....	\$1,000.. 3 405 410	Work-in-process inventories, beginning of year .....	\$1,000.. 1 816 016
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 377 949	Materials and supplies inventories, beginning of year .....	\$1,000.. 3 528 741
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 3 027 461	Total inventories, end of year .....	\$1,000.. 9 958 940
Total retirements .....	\$1,000.. 986 906	Finished goods inventories, end of year .....	\$1,000.. 4 493 180
Gross book value of total assets at end of year .....	\$1,000.. 38 941 716	Work-in-process inventories, end of year .....	\$1,000.. 1 874 379
Total depreciation during year .....	\$1,000.. 2 460 041	Materials and supplies inventories, end of year .....	\$1,000.. 3 591 381
Total rental payments .....	\$1,000.. 355 382	Gross book value of total assets at beginning of year .....	\$1,000.. 41 766 573
Buildings and other structures rental payments .....	\$1,000.. 135 923	Total capital expenditures (new and used) .....	\$1,000.. 3 853 294
Machinery and equipment rental payments .....	\$1,000.. 219 459	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 488 475
<b>SOUTH DAKOTA</b>		Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 3 364 819
Companies <sup>1</sup> .....	number.. 822	Total retirements .....	\$1,000.. 1 097 562
All establishments .....	number.. 884	Gross book value of total assets at end of year .....	\$1,000.. 44 522 305
Establishments with 1 to 19 employees .....	number.. 595	Total depreciation during year .....	\$1,000.. 2 752 462
Establishments with 20 to 99 employees .....	number.. 195	Total rental payments .....	\$1,000.. 655 982
Establishments with 100 employees or more .....	number.. 94	Buildings and other structures rental payments .....	\$1,000.. 258 639
All employees .....	number.. 46 287	Machinery and equipment rental payments .....	\$1,000.. 397 343
Total compensation .....	\$1,000.. 1 441 256		
Annual payroll .....	\$1,000.. 1 155 969		
Total fringe benefits .....	\$1,000.. 285 287		

**Table 2-3. Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>TEXAS</b>		<b>UTAH—Con.</b>	
Companies <sup>1</sup> .....	number.. 19 763	Total depreciation during year .....	\$1,000.. 604 283
All establishments .....	number.. 21 763	Total rental payments .....	\$1,000.. 218 248
Establishments with 1 to 19 employees .....	number.. 15 010	Buildings and other structures rental payments .....	\$1,000.. 105 342
Establishments with 20 to 99 employees .....	number.. 4 886	Machinery and equipment rental payments .....	\$1,000.. 112 906
Establishments with 100 employees or more .....	number.. 1 867	<b>VERMONT</b>	
All employees .....	number.. 958 232	Companies <sup>1</sup> .....	number.. 1 177
Total compensation .....	\$1,000.. 40 930 590	All establishments .....	number.. 1 225
Annual payroll .....	\$1,000.. 32 718 983	Establishments with 1 to 19 employees .....	number.. 886
Total fringe benefits .....	\$1,000.. 8 211 607	Establishments with 20 to 99 employees .....	number.. 250
Production workers, average for year .....	number.. 663 356	Establishments with 100 employees or more .....	number.. 89
Production workers on March 12 .....	number.. 658 615	All employees .....	number.. 42 503
Production workers on May 12 .....	number.. 661 734	Total compensation .....	\$1,000.. 1 801 588
Production workers on August 12 .....	number.. 664 986	Annual payroll .....	\$1,000.. 1 457 047
Production workers on November 12 .....	number.. 668 089	Total fringe benefits .....	\$1,000.. 344 541
Production-worker hours .....	1,000.. 1 340 712	Production workers, average for year .....	number.. 29 291
Production-worker wages .....	\$1,000.. 18 093 008	Production workers on March 12 .....	number.. 29 118
Total cost of materials .....	\$1,000.. 169 487 234	Production workers on May 12 .....	number.. 29 424
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 151 422 748	Production workers on August 12 .....	number.. 29 276
Cost of resales .....	\$1,000.. 7 567 691	Production workers on November 12 .....	number.. 29 346
Cost of fuels .....	\$1,000.. 4 045 713	Production-worker hours .....	1,000.. 57 719
Cost of purchased electricity .....	\$1,000.. 2 756 504	Production-worker wages .....	\$1,000.. 757 088
Cost of contract work .....	\$1,000.. 3 694 578	Total cost of materials .....	\$1,000.. 3 929 084
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 64 454 819	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 2 963 936
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 17 462 704	Cost of resales .....	\$1,000.. 485 844
Total value of shipments .....	\$1,000.. 296 782 631	Cost of fuels .....	\$1,000.. 28 911
Value added .....	\$1,000.. 127 579 894	Cost of purchased electricity .....	\$1,000.. 86 886
Total inventories, beginning of year .....	\$1,000.. 28 798 924	Cost of contract work .....	\$1,000.. 363 507
Finished goods inventories, beginning of year .....	\$1,000.. 11 585 773	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 228 688
Work-in-process inventories, beginning of year .....	\$1,000.. 7 572 261	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Materials and supplies inventories, beginning of year .....	\$1,000.. 9 640 890	Total value of shipments .....	\$1,000.. 7 799 397
Total inventories, end of year .....	\$1,000.. 29 615 986	Value added .....	\$1,000.. 4 028 276
Finished goods inventories, end of year .....	\$1,000.. 11 714 892	Total inventories, beginning of year .....	\$1,000.. 843 219
Work-in-process inventories, end of year .....	\$1,000.. 7 733 941	Finished goods inventories, beginning of year .....	\$1,000.. 224 912
Materials and supplies inventories, end of year .....	\$1,000.. 10 167 153	Work-in-process inventories, beginning of year .....	\$1,000.. 399 968
Gross book value of total assets at beginning of year .....	\$1,000.. 131 867 036	Materials and supplies inventories, beginning of year .....	\$1,000.. 218 339
Total capital expenditures (new and used) .....	\$1,000.. 12 505 676	Total inventories, end of year .....	\$1,000.. 1 029 369
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 1 479 344	Finished goods inventories, end of year .....	\$1,000.. 234 716
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 11 026 332	Work-in-process inventories, end of year .....	\$1,000.. 548 587
Total retirements .....	\$1,000.. 3 166 693	Materials and supplies inventories, end of year .....	\$1,000.. 246 066
Gross book value of total assets at end of year .....	\$1,000.. 141 206 019	Gross book value of total assets at beginning of year .....	\$1,000.. 3 868 778
Total depreciation during year .....	\$1,000.. 9 077 621	Total capital expenditures (new and used) .....	\$1,000.. 732 944
Total rental payments .....	\$1,000.. 2 075 567	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 79 771
Buildings and other structures rental payments .....	\$1,000.. 827 551	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 653 173
Machinery and equipment rental payments .....	\$1,000.. 1 248 016	Total retirements .....	\$1,000.. 179 534
<b>UTAH</b>		Gross book value of total assets at end of year .....	\$1,000.. 4 422 188
Companies <sup>1</sup> .....	number.. 2 762	Total depreciation during year .....	\$1,000.. 380 917
All establishments .....	number.. 2 855	Total rental payments .....	\$1,000.. 67 718
Establishments with 1 to 19 employees .....	number.. 1 998	Buildings and other structures rental payments .....	\$1,000.. 35 351
Establishments with 20 to 99 employees .....	number.. 630	Machinery and equipment rental payments .....	\$1,000.. 32 367
Establishments with 100 employees or more .....	number.. 227	<b>VIRGINIA</b>	
All employees .....	number.. 121 899	Companies <sup>1</sup> .....	number.. 5 444
Total compensation .....	\$1,000.. 4 660 642	All establishments .....	number.. 5 970
Annual payroll .....	\$1,000.. 3 765 895	Establishments with 1 to 19 employees .....	number.. 3 938
Total fringe benefits .....	\$1,000.. 894 747	Establishments with 20 to 99 employees .....	number.. 1 281
Production workers, average for year .....	number.. 86 686	Establishments with 100 employees or more .....	number.. 751
Production workers on March 12 .....	number.. 82 953	All employees .....	number.. 370 242
Production workers on May 12 .....	number.. 86 339	Total compensation .....	\$1,000.. 14 520 077
Production workers on August 12 .....	number.. 87 041	Annual payroll .....	\$1,000.. 11 549 863
Production workers on November 12 .....	number.. 90 411	Total fringe benefits .....	\$1,000.. 2 970 214
Production-worker hours .....	1,000.. 169 255	Production workers, average for year .....	number.. 274 381
Production-worker wages .....	\$1,000.. 2 246 557	Production workers on March 12 .....	number.. 273 376
Total cost of materials .....	\$1,000.. 13 346 669	Production workers on May 12 .....	number.. 273 819
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 11 899 521	Production workers on August 12 .....	number.. 274 444
Cost of resales .....	\$1,000.. 801 392	Production workers on November 12 .....	number.. 275 885
Cost of fuels .....	\$1,000.. 139 185	Production-worker hours .....	1,000.. 549 218
Cost of purchased electricity .....	\$1,000.. 208 177	Production-worker wages .....	\$1,000.. 7 243 796
Cost of contract work .....	\$1,000.. 298 394	Total cost of materials .....	\$1,000.. 40 772 089
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 5 474 630	Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 36 332 608
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 433 572	Cost of resales .....	\$1,000.. 2 241 091
Total value of shipments .....	\$1,000.. 24 953 032	Cost of fuels .....	\$1,000.. 486 998
Value added .....	\$1,000.. 11 689 959	Cost of purchased electricity .....	\$1,000.. 765 012
Total inventories, beginning of year .....	\$1,000.. 2 695 994	Cost of contract work .....	\$1,000.. 946 380
Finished goods inventories, beginning of year .....	\$1,000.. 962 489	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 17 976 120
Work-in-process inventories, beginning of year .....	\$1,000.. 744 873	Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 1 813 235
Materials and supplies inventories, beginning of year .....	\$1,000.. 988 632	Total value of shipments .....	\$1,000.. 83 872 063
Total inventories, end of year .....	\$1,000.. 2 934 265	Value added .....	\$1,000.. 43 180 687
Finished goods inventories, end of year .....	\$1,000.. 1 054 444	Total inventories, beginning of year .....	\$1,000.. 9 904 580
Work-in-process inventories, end of year .....	\$1,000.. 733 237	Finished goods inventories, beginning of year .....	\$1,000.. 2 742 200
Materials and supplies inventories, end of year .....	\$1,000.. 1 146 584	Work-in-process inventories, beginning of year .....	\$1,000.. 2 170 892
Gross book value of total assets at beginning of year .....	\$1,000.. 8 036 663	Materials and supplies inventories, beginning of year .....	\$1,000.. 4 991 488
Total capital expenditures (new and used) .....	\$1,000.. 948 033	Total inventories, end of year .....	\$1,000.. 10 283 391
Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 108 760	Finished goods inventories, end of year .....	\$1,000.. 2 879 106
Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 839 273	Work-in-process inventories, end of year .....	\$1,000.. 2 125 067
Total retirements .....	\$1,000.. 273 451	Materials and supplies inventories, end of year .....	\$1,000.. 5 279 218
Gross book value of total assets at end of year .....	\$1,000.. 8 711 245		

Table 2-3. Detailed Statistics for States: 1997—Con.

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

Item	Value	Item	Value
<b>VIRGINIA—Con.</b>		<b>WEST VIRGINIA—Con.</b>	
Gross book value of total assets at beginning of year	\$1,000.. 31 533 169	Total inventories, beginning of year	\$1,000.. 2 276 864
Total capital expenditures (new and used)	\$1,000.. 3 423 260	Finished goods inventories, beginning of year	\$1,000.. 960 447
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 565 293	Work-in-process inventories, beginning of year	\$1,000.. 624 844
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 2 857 967	Materials and supplies inventories, beginning of year	\$1,000.. 691 573
Total retirements	\$1,000.. 868 353	Total inventories, end of year	\$1,000.. 2 302 776
Gross book value of total assets at end of year	\$1,000.. 34 088 076	Finished goods inventories, end of year	\$1,000.. 935 106
Total depreciation during year	\$1,000.. 2 013 205	Work-in-process inventories, end of year	\$1,000.. 624 336
Total rental payments	\$1,000.. 491 149	Materials and supplies inventories, end of year	\$1,000.. 743 334
Buildings and other structures rental payments	\$1,000.. 216 722	Gross book value of total assets at beginning of year	\$1,000.. 9 663 013
Machinery and equipment rental payments	\$1,000.. 274 427	Total capital expenditures (new and used)	\$1,000.. 914 250
<b>WASHINGTON</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 135 390
Companies <sup>1</sup>	number.. 7 379	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 778 860
All establishments	number.. 7 781	Total retirements	\$1,000.. 229 461
Establishments with 1 to 19 employees	number.. 5 636	Gross book value of total assets at end of year	\$1,000.. 10 347 802
Establishments with 20 to 99 employees	number.. 1 577	Total depreciation during year	\$1,000.. 573 885
Establishments with 100 employees or more	number.. 568	Total rental payments	\$1,000.. 82 357
All employees	number.. 327 207	Buildings and other structures rental payments	\$1,000.. 29 362
Total compensation	\$1,000.. 16 030 377	Machinery and equipment rental payments	\$1,000.. 52 995
Annual payroll	\$1,000.. 12 970 253	<b>WISCONSIN</b>	
Total fringe benefits	\$1,000.. 3 060 124	Companies <sup>1</sup>	number.. 8 920
Production workers, average for year	number.. 212 981	All establishments	number.. 9 914
Production workers on March 12	number.. 206 936	Establishments with 1 to 19 employees	number.. 6 028
Production workers on May 12	number.. 210 869	Establishments with 20 to 99 employees	number.. 2 644
Production workers on August 12	number.. 215 312	Establishments with 100 employees or more	number.. 1 242
Production workers on November 12	number.. 218 807	All employees	number.. 560 582
Production-worker hours	1,000.. 424 129	Total compensation	\$1,000.. 23 666 310
Production-worker wages	\$1,000.. 7 042 745	Annual payroll	\$1,000.. 18 874 331
Total cost of materials	\$1,000.. 48 896 972	Total fringe benefits	\$1,000.. 4 791 979
Cost of materials, parts, containers, etc., consumed	\$1,000.. 43 891 549	Production workers, average for year	number.. 414 966
Cost of resales	\$1,000.. 2 486 270	Production workers on March 12	number.. 407 367
Cost of fuels	\$1,000.. 344 481	Production workers on May 12	number.. 413 461
Cost of purchased electricity	\$1,000.. 982 615	Production workers on August 12	number.. 422 765
Cost of contract work	\$1,000.. 1 192 057	Production workers on November 12	number.. 416 271
Quantity of electricity purchased for heat and power	1,000 kWh.. 35 718 621	Production-worker hours	1,000.. 829 277
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 932 441	Production-worker wages	\$1,000.. 12 001 190
Total value of shipments	\$1,000.. 78 507 552	Total cost of materials	\$1,000.. 62 210 676
Value added	\$1,000.. 31 534 413	Cost of materials, parts, containers, etc., consumed	\$1,000.. 55 418 873
Total inventories, beginning of year	\$1,000.. 20 692 395	Cost of resales	\$1,000.. 3 968 856
Finished goods inventories, beginning of year	\$1,000.. 3 117 755	Cost of fuels	\$1,000.. 694 782
Work-in-process inventories, beginning of year	\$1,000.. 14 675 105	Cost of purchased electricity	\$1,000.. 907 752
Materials and supplies inventories, beginning of year	\$1,000.. 2 899 535	Cost of contract work	\$1,000.. 1 220 413
Total inventories, end of year	\$1,000.. 23 531 580	Quantity of electricity purchased for heat and power	1,000 kWh.. 22 597 810
Finished goods inventories, end of year	\$1,000.. 2 676 986	Quantity of electricity generated less sold for heat and power	1,000 kWh.. 1 972 370
Work-in-process inventories, end of year	\$1,000.. 17 060 525	Total value of shipments	\$1,000.. 117 150 720
Materials and supplies inventories, end of year	\$1,000.. 3 794 069	Value added	\$1,000.. 54 974 219
Gross book value of total assets at beginning of year	\$1,000.. 34 138 378	Total inventories, beginning of year	\$1,000.. 12 667 201
Total capital expenditures (new and used)	\$1,000.. 2 628 861	Finished goods inventories, beginning of year	\$1,000.. 4 822 687
Capital expenditures for buildings and other structures (new and used)	\$1,000.. 690 391	Work-in-process inventories, beginning of year	\$1,000.. 3 168 742
Capital expenditures for machinery and equipment (new and used)	\$1,000.. 1 938 470	Materials and supplies inventories, beginning of year	\$1,000.. 4 675 772
Total retirements	\$1,000.. 931 218	Total inventories, end of year	\$1,000.. 12 670 024
Gross book value of total assets at end of year	\$1,000.. 35 836 021	Finished goods inventories, end of year	\$1,000.. 4 884 051
Total depreciation during year	\$1,000.. 2 221 127	Work-in-process inventories, end of year	\$1,000.. 3 185 148
Total rental payments	\$1,000.. 540 982	Materials and supplies inventories, end of year	\$1,000.. 4 600 825
Buildings and other structures rental payments	\$1,000.. 297 408	Gross book value of total assets at beginning of year	\$1,000.. 40 964 306
Machinery and equipment rental payments	\$1,000.. 243 574	Total capital expenditures (new and used)	\$1,000.. 4 134 060
<b>WEST VIRGINIA</b>		Capital expenditures for buildings and other structures (new and used)	\$1,000.. 673 191
Companies <sup>1</sup>	number.. 1 408	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 3 460 869
All establishments	number.. 1 499	Total retirements	\$1,000.. 1 149 011
Establishments with 1 to 19 employees	number.. 987	Gross book value of total assets at end of year	\$1,000.. 43 949 355
Establishments with 20 to 99 employees	number.. 368	Total depreciation during year	\$1,000.. 2 773 712
Establishments with 100 employees or more	number.. 144	Total rental payments	\$1,000.. 786 339
All employees	number.. 72 425	Buildings and other structures rental payments	\$1,000.. 363 663
Total compensation	\$1,000.. 3 233 118	Machinery and equipment rental payments	\$1,000.. 402 674
Annual payroll	\$1,000.. 2 453 353	<b>WYOMING</b>	
Total fringe benefits	\$1,000.. 779 765	Companies <sup>1</sup>	number.. 489
Production workers, average for year	number.. 55 378	All establishments	number.. 503
Production workers on March 12	number.. 54 727	Establishments with 1 to 19 employees	number.. 413
Production workers on May 12	number.. 55 313	Establishments with 20 to 99 employees	number.. 67
Production workers on August 12	number.. 55 340	Establishments with 100 employees or more	number.. 23
Production workers on November 12	number.. 56 132	All employees	number.. 8 448
Production-worker hours	1,000.. 112 022	Total compensation	\$1,000.. 319 288
Production-worker wages	\$1,000.. 1 655 632	Annual payroll	\$1,000.. 256 382
Total cost of materials	\$1,000.. 8 941 129	Total fringe benefits	\$1,000.. 62 906
Cost of materials, parts, containers, etc., consumed	\$1,000.. 7 635 037	Production workers, average for year	number.. 6 426
Cost of resales	\$1,000.. 493 002	Production workers on March 12	number.. 6 313
Cost of fuels	\$1,000.. 290 947	Production workers on May 12	number.. 6 312
Cost of purchased electricity	\$1,000.. 326 879	Production workers on August 12	number.. 6 457
Cost of contract work	\$1,000.. 195 264	Production workers on November 12	number.. 6 622
Quantity of electricity purchased for heat and power	1,000 kWh.. 9 736 646	Production-worker hours	1,000.. 12 209
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 1 884 058	Production-worker wages	\$1,000.. 174 810
Total value of shipments	\$1,000.. 17 947 576		
Value added	\$1,000.. 8 980 535		

Table 2-3. **Detailed Statistics for States: 1997—Con.**

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

Item	Value	Item	Value
<b>WYOMING—Con.</b>		<b>WYOMING—Con.</b>	
Total cost of materials .....	\$1,000.. 1 910 250	Total inventories, end of year .....	\$1,000.. 283 930
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 1 727 808	Finished goods inventories, end of year .....	\$1,000.. 136 017
Cost of resales .....	\$1,000.. 39 549	Work-in-process inventories, end of year .....	\$1,000.. 43 062
Cost of fuels .....	\$1,000.. 39 435	Materials and supplies inventories, end of year .....	\$1,000.. 104 851
Cost of purchased electricity .....	\$1,000.. 59 540	Gross book value of total assets at beginning of year .....	\$1,000.. 1 421 757
Cost of contract work .....	\$1,000.. 43 918	Total capital expenditures (new and used) .....	\$1,000.. 76 990
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 906 795	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 7 562
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 92 185	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 69 428
Total value of shipments .....	\$1,000.. 2 955 070	Total retirements .....	\$1,000.. 16 855
Value added .....	\$1,000.. 1 030 583	Gross book value of total assets at end of year .....	\$1,000.. 1 481 892
Total inventories, beginning of year .....	\$1,000.. 285 842	Total depreciation during year .....	\$1,000.. 77 347
Finished goods inventories, beginning of year .....	\$1,000.. 125 520	Total rental payments .....	\$1,000.. 11 598
Work-in-process inventories, beginning of year .....	\$1,000.. 67 760	Buildings and other structures rental payments .....	\$1,000.. 3 788
Materials and supplies inventories, beginning of year .....	\$1,000.. 92 562	Machinery and equipment rental payments .....	\$1,000.. 7 810

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

**Table 3-1. Method of Inventory Valuation by Subsector: 1997**

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

Item	Percent of total	Absolute standard error (percent)	Item	Percent of total	Absolute standard error (percent)
<b>31-33, MANUFACTURING</b>			<b>316, LEATHER &amp; ALLIED PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	32.0	X	Last-in, First-out (LIFO) methods .....	32.8	X
Non-LIFO methods .....	63.9	X	Non-LIFO methods .....	63.8	X
First-in, First-out (FIFO) .....	19.0	.2	First-in, First-out (FIFO) .....	33.8	2.1
Average cost .....	16.4	.2	Average cost .....	5.5	.7
Standard cost .....	20.9	.2	Standard cost .....	21.7	2.0
Other non-LIFO methods, including market basis .....	7.6	.1	Other non-LIFO methods, including market basis .....	2.9	1.3
Valuation method not reported .....	3.7	X	Valuation method not reported .....	3.3	X
Amount subject to LIFO reported without associated reserve and value .....	.4	X	Amount subject to LIFO reported without associated reserve and value .....	-	X
<b>311, FOOD MFG</b>			<b>321, WOOD PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	24.1	X	Last-in, First-out (LIFO) methods .....	33.7	X
Non-LIFO methods .....	73.8	X	Non-LIFO methods .....	57.1	X
First-in, First-out (FIFO) .....	27.1	.6	First-in, First-out (FIFO) .....	16.5	1.1
Average cost .....	18.1	.7	Average cost .....	20.6	1.0
Standard cost .....	16.4	.4	Standard cost .....	10.0	.6
Other non-LIFO methods, including market basis .....	12.3	.4	Other non-LIFO methods, including market basis .....	10.0	.9
Valuation method not reported .....	1.8	X	Valuation method not reported .....	4.8	X
Amount subject to LIFO reported without associated reserve and value .....	.2	X	Amount subject to LIFO reported without associated reserve and value .....	4.4	X
<b>312, BEVERAGE &amp; TOBACCO PRODUCT MFG</b>			<b>322, PAPER MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	72.0	X	Last-in, First-out (LIFO) methods .....	37.6	X
Non-LIFO methods .....	27.5	X	Non-LIFO methods .....	57.7	X
First-in, First-out (FIFO) .....	10.4	1.1	First-in, First-out (FIFO) .....	13.1	.5
Average cost .....	4.5	.9	Average cost .....	20.9	.7
Standard cost .....	11.0	.9	Standard cost .....	18.1	.7
Other non-LIFO methods, including market basis .....	1.6	1.0	Other non-LIFO methods, including market basis .....	5.5	.3
Valuation method not reported .....	.5	X	Valuation method not reported .....	2.3	X
Amount subject to LIFO reported without associated reserve and value .....	-	X	Amount subject to LIFO reported without associated reserve and value .....	2.4	X
<b>313, TEXTILE MILLS</b>			<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	48.7	X	Last-in, First-out (LIFO) methods .....	33.1	X
Non-LIFO methods .....	48.9	X	Non-LIFO methods .....	58.4	X
First-in, First-out (FIFO) .....	21.7	.8	First-in, First-out (FIFO) .....	25.7	.9
Average cost .....	7.7	.6	Average cost .....	11.8	1.0
Standard cost .....	13.5	.7	Standard cost .....	14.5	.7
Other non-LIFO methods, including market basis .....	6.1	.7	Other non-LIFO methods, including market basis .....	6.3	.7
Valuation method not reported .....	1.5	X	Valuation method not reported .....	8.3	X
Amount subject to LIFO reported without associated reserve and value .....	.9	X	Amount subject to LIFO reported without associated reserve and value .....	.2	X
<b>314, TEXTILE PRODUCT MILLS</b>			<b>324, PETROLEUM &amp; COAL PRODUCTS MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	46.2	X	Last-in, First-out (LIFO) methods .....	74.2	X
Non-LIFO methods .....	51.1	X	Non-LIFO methods .....	25.5	X
First-in, First-out (FIFO) .....	20.3	1.0	First-in, First-out (FIFO) .....	7.3	.3
Average cost .....	10.8	.8	Average cost .....	11.7	.2
Standard cost .....	17.3	.9	Standard cost .....	3.0	.1
Other non-LIFO methods, including market basis .....	2.6	.3	Other non-LIFO methods, including market basis .....	3.6	.2
Valuation method not reported .....	2.4	X	Valuation method not reported .....	.2	X
Amount subject to LIFO reported without associated reserve and value .....	.4	X	Amount subject to LIFO reported without associated reserve and value .....	-	X
<b>315, APPAREL MFG</b>			<b>325, CHEMICAL MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	20.2	X	Last-in, First-out (LIFO) methods .....	46.6	X
Non-LIFO methods .....	73.1	X	Non-LIFO methods .....	52.4	X
First-in, First-out (FIFO) .....	25.0	.9	First-in, First-out (FIFO) .....	14.4	.5
Average cost .....	8.8	.7	Average cost .....	15.5	.7
Standard cost .....	29.1	1.2	Standard cost .....	19.0	.7
Other non-LIFO methods, including market basis .....	10.2	.7	Other non-LIFO methods, including market basis .....	3.5	.2
Valuation method not reported .....	6.5	X	Valuation method not reported .....	.9	X
Amount subject to LIFO reported without associated reserve and value .....	.2	X	Amount subject to LIFO reported without associated reserve and value .....	.2	X

Table 3-1. Method of Inventory Valuation by Subsector: 1997—Con.

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

Item	Percent of total	Absolute standard error (percent)	Item	Percent of total	Absolute standard error (percent)
<b>326, PLASTICS &amp; RUBBER PRODUCTS MFG</b>			<b>334, COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	38.8	X	Last-in, First-out (LIFO) methods .....	5.5	X
Non-LIFO methods .....	57.1	X	Non-LIFO methods .....	91.8	X
First-in, First-out (FIFO) .....	21.6	.6	First-in, First-out (FIFO) .....	23.5	.4
Average cost .....	9.0	.5	Average cost .....	15.2	.3
Standard cost .....	23.6	.5	Standard cost .....	42.1	.6
Other non-LIFO methods, including market basis .....	2.9	.2	Other non-LIFO methods, including market basis .....	11.0	.4
Valuation method not reported .....	3.2	X	Valuation method not reported .....	2.6	X
Amount subject to LIFO reported without associated reserve and value .....	1.0	X	Amount subject to LIFO reported without associated reserve and value .....	.1	X
<b>327, NONMETALLIC MINERAL PRODUCT MFG</b>			<b>335, ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	37.4	X	Last-in, First-out (LIFO) methods .....	39.2	X
Non-LIFO methods .....	58.8	X	Non-LIFO methods .....	57.0	X
First-in, First-out (FIFO) .....	21.7	1.1	First-in, First-out (FIFO) .....	25.4	1.9
Average cost .....	16.3	.8	Average cost .....	6.4	1.2
Standard cost .....	16.8	.9	Standard cost .....	23.0	1.5
Other non-LIFO methods, including market basis .....	4.0	.8	Other non-LIFO methods, including market basis .....	2.1	.3
Valuation method not reported .....	3.4	X	Valuation method not reported .....	2.7	X
Amount subject to LIFO reported without associated reserve and value .....	.4	X	Amount subject to LIFO reported without associated reserve and value .....	1.2	X
<b>331, PRIMARY METAL MFG</b>			<b>336, TRANSPORTATION EQUIPMENT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	54.0	X	Last-in, First-out (LIFO) methods .....	12.3	X
Non-LIFO methods .....	45.4	X	Non-LIFO methods .....	78.3	X
First-in, First-out (FIFO) .....	15.1	.4	First-in, First-out (FIFO) .....	12.3	.2
Average cost .....	14.9	.3	Average cost .....	37.7	.2
Standard cost .....	11.9	.3	Standard cost .....	14.2	.2
Other non-LIFO methods, including market basis .....	3.6	.1	Other non-LIFO methods, including market basis .....	14.1	.2
Valuation method not reported .....	.5	X	Valuation method not reported .....	9.3	X
Amount subject to LIFO reported without associated reserve and value .....	.1	X	Amount subject to LIFO reported without associated reserve and value .....	.1	X
<b>332, FABRICATED METAL PRODUCT MFG</b>			<b>337, FURNITURE &amp; RELATED PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	37.4	X	Last-in, First-out (LIFO) methods .....	37.5	X
Non-LIFO methods .....	57.3	X	Non-LIFO methods .....	55.7	X
First-in, First-out (FIFO) .....	20.6	.8	First-in, First-out (FIFO) .....	24.0	1.0
Average cost .....	11.4	.6	Average cost .....	6.3	.5
Standard cost .....	19.5	.7	Standard cost .....	20.2	1.0
Other non-LIFO methods, including market basis .....	5.7	.4	Other non-LIFO methods, including market basis .....	5.2	.5
Valuation method not reported .....	4.9	X	Valuation method not reported .....	6.1	X
Amount subject to LIFO reported without associated reserve and value .....	.4	X	Amount subject to LIFO reported without associated reserve and value .....	.7	X
<b>333, MACHINERY MFG</b>			<b>339, MISCELLANEOUS MFG</b>		
<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>	<b>Total inventories</b> .....	<b>100.0</b>	<b>X</b>
Last-in, First-out (LIFO) methods .....	41.1	X	Last-in, First-out (LIFO) methods .....	25.8	X
Non-LIFO methods .....	55.8	X	Non-LIFO methods .....	69.1	X
First-in, First-out (FIFO) .....	17.4	.6	First-in, First-out (FIFO) .....	29.7	1.1
Average cost .....	8.0	.5	Average cost .....	7.2	.6
Standard cost .....	22.4	.7	Standard cost .....	28.7	1.0
Other non-LIFO methods, including market basis .....	8.0	.6	Other non-LIFO methods, including market basis .....	3.4	.3
Valuation method not reported .....	2.7	X	Valuation method not reported .....	5.1	X
Amount subject to LIFO reported without associated reserve and value .....	.4	X	Amount subject to LIFO reported without associated reserve and value .....	.1	X

Note: Percentages shown for LIFO and non-LIFO totals and categories, valuation method not reported, and amount subject to LIFO reported without associated reserve and value are based on census universe estimates included in Table 3-2. Percentages shown for specific non-LIFO methods of valuation (e.g., FIFO, etc.) are based on a representative sample of establishments included in annual survey of manufactures (ASM) panel for 1997 (see appendixes for description of ASM). Absolute standard error of each ASM estimate is shown above.

**Table 3–2. Inventories With LIFO Valuation by Subsector: 1997**

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

Item	Beginning of 1997 (\$1,000)	End of 1997 (\$1,000)	Item	Beginning of 1997 (\$1,000)	End of 1997 (\$1,000)
<b>31-33, MANUFACTURING</b>			<b>321, WOOD PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>419 977 777</b>	<b>433 448 730</b>	<b>Total inventories</b> .....	<b>8 822 850</b>	<b>9 441 249</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	116 014 944	118 822 559	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	2 379 024	2 449 765
LIFO reserve .....	29 257 257	27 244 667	LIFO reserve .....	662 984	745 314
LIFO value .....	86 757 687	91 577 892	LIFO value .....	1 716 040	1 704 451
Not subject to LIFO costing .....	246 880 933	284 246 607	Not subject to LIFO costing .....	4 693 362	5 476 301
Valuation method not reported <sup>2</sup> .....	54 652 003	28 090 811	Valuation method not reported <sup>2</sup> .....	1 467 877	1 132 696
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	2 429 897	2 288 753	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	282 587	382 487
<b>311, FOOD MFG</b>			<b>322, PAPER MFG</b>		
<b>Total inventories</b> .....	<b>29 482 461</b>	<b>30 151 960</b>	<b>Total inventories</b> .....	<b>14 892 766</b>	<b>15 041 523</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	5 870 708	6 247 345	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	4 828 989	5 121 188
LIFO reserve .....	826 568	896 868	LIFO reserve .....	1 130 410	1 057 269
LIFO value .....	5 044 140	5 350 477	LIFO value .....	3 698 579	4 063 919
Not subject to LIFO costing .....	19 989 302	22 461 149	Not subject to LIFO costing .....	8 300 006	9 006 507
Valuation method not reported <sup>2</sup> .....	3 518 531	1 335 871	Valuation method not reported <sup>2</sup> .....	1 406 882	578 644
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	103 920	107 595	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	356 889	335 184
<b>312, BEVERAGE &amp; TOBACCO PRODUCT MFG</b>			<b>323, PRINTING &amp; RELATED SUPPORT ACTIVITIES</b>		
<b>Total inventories</b> .....	<b>13 302 961</b>	<b>14 188 142</b>	<b>Total inventories</b> .....	<b>6 396 004</b>	<b>6 621 144</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	8 790 768	9 161 212	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	1 396 458	1 435 004
LIFO reserve .....	2 774 961	2 955 772	LIFO reserve .....	281 888	257 698
LIFO value .....	6 015 807	6 205 440	LIFO value .....	1 114 570	1 177 306
Not subject to LIFO costing .....	3 405 751	4 554 921	Not subject to LIFO costing .....	2 838 332	4 260 993
Valuation method not reported <sup>2</sup> .....	1 092 974	464 273	Valuation method not reported <sup>2</sup> .....	2 116 221	884 662
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	13 468	7 736	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	44 993	40 485
<b>313, TEXTILE MILLS</b>			<b>324, PETROLEUM &amp; COAL PRODUCTS MFG</b>		
<b>Total inventories</b> .....	<b>6 678 254</b>	<b>6 640 225</b>	<b>Total inventories</b> .....	<b>12 009 719</b>	<b>11 492 679</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	2 658 988	2 588 882	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	8 501 526	8 061 551
LIFO reserve .....	631 648	570 182	LIFO reserve .....	3 666 288	2 543 112
LIFO value .....	2 027 340	2 018 700	LIFO value .....	4 835 238	5 518 439
Not subject to LIFO costing .....	3 024 436	3 554 935	Not subject to LIFO costing .....	3 024 149	3 248 776
Valuation method not reported <sup>2</sup> .....	924 155	404 776	Valuation method not reported <sup>2</sup> .....	480 198	178 389
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	70 675	91 632	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	3 846	3 963
<b>314, TEXTILE PRODUCT MILLS</b>			<b>325, CHEMICAL MFG</b>		
<b>Total inventories</b> .....	<b>4 063 504</b>	<b>4 330 993</b>	<b>Total inventories</b> .....	<b>42 704 411</b>	<b>44 691 476</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	1 421 815	1 502 020	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	17 010 435	18 195 297
LIFO reserve .....	174 302	178 775	LIFO reserve .....	4 493 325	4 196 643
LIFO value .....	1 247 513	1 323 245	LIFO value .....	12 517 110	13 998 654
Not subject to LIFO costing .....	1 854 808	2 508 135	Not subject to LIFO costing .....	21 922 716	25 019 242
Valuation method not reported <sup>2</sup> .....	776 152	294 545	Valuation method not reported <sup>2</sup> .....	3 597 558	1 353 103
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	10 729	26 293	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	173 702	123 834
<b>315, APPAREL MFG</b>			<b>326, PLASTICS &amp; RUBBER PRODUCTS MFG</b>		
<b>Total inventories</b> .....	<b>8 856 417</b>	<b>9 266 744</b>	<b>Total inventories</b> .....	<b>15 574 510</b>	<b>15 979 716</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	1 664 397	1 565 640	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	4 954 059	4 938 400
LIFO reserve .....	292 891	261 892	LIFO reserve .....	955 339	890 540
LIFO value .....	1 371 506	1 303 748	LIFO value .....	3 998 720	4 047 860
Not subject to LIFO costing .....	5 349 599	6 758 946	Not subject to LIFO costing .....	7 843 698	9 803 729
Valuation method not reported <sup>2</sup> .....	1 795 467	910 910	Valuation method not reported <sup>2</sup> .....	2 662 094	1 084 544
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	46 954	31 248	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	114 659	153 043
<b>316, LEATHER &amp; ALLIED PRODUCT MFG</b>			<b>327, NONMETALLIC MINERAL PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>1 676 961</b>	<b>1 717 650</b>	<b>Total inventories</b> .....	<b>8 636 639</b>	<b>8 840 326</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	445 724	415 393	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	2 554 994	2 507 310
LIFO reserve .....	111 767	105 151	LIFO reserve .....	469 365	436 488
LIFO value .....	333 957	310 242	LIFO value .....	2 085 629	2 070 822
Not subject to LIFO costing .....	896 222	1 134 047	Not subject to LIFO costing .....	4 395 403	5 616 236
Valuation method not reported <sup>2</sup> .....	330 967	164 253	Valuation method not reported <sup>2</sup> .....	1 619 501	656 744
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	4 048	3 957	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	66 741	60 036

**Table 3–2. Inventories With LIFO Valuation by Subsector: 1997—Con.**

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

Item	Beginning of 1997 (\$1,000)	End of 1997 (\$1,000)	Item	Beginning of 1997 (\$1,000)	End of 1997 (\$1,000)
<b>331, PRIMARY METAL MFG</b>			<b>335, ELECTRICAL EQUIPMENT, APPLIANCE, &amp; COMPONENT MFG</b>		
<b>Total inventories</b> .....	<b>22 339 511</b>	<b>22 727 686</b>	<b>Total inventories</b> .....	<b>13 029 124</b>	<b>13 529 479</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	10 920 763	11 307 125	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	4 373 816	4 393 996
LIFO reserve .....	2 731 147	2 629 914	LIFO reserve .....	1 060 694	1 110 237
LIFO value .....	8 189 616	8 677 211	LIFO value .....	3 313 122	3 283 759
Not subject to LIFO costing .....	10 117 205	10 979 376	Not subject to LIFO costing .....	6 618 139	8 215 738
Valuation method not reported <sup>2</sup> .....	1 258 237	385 056	Valuation method not reported <sup>2</sup> .....	1 905 713	778 991
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	43 306	56 129	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	131 456	140 754
<b>332, FABRICATED METAL PRODUCT MFG</b>			<b>336, TRANSPORTATION EQUIPMENT MFG</b>		
<b>Total inventories</b> .....	<b>30 466 548</b>	<b>31 774 159</b>	<b>Total inventories</b> .....	<b>65 287 222</b>	<b>66 411 837</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	8 483 070	8 644 601	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	7 643 358	8 052 909
LIFO reserve .....	1 983 261	1 922 855	LIFO reserve .....	1 701 292	1 464 742
LIFO value .....	6 499 809	6 721 746	LIFO value .....	5 942 066	6 588 167
Not subject to LIFO costing .....	14 391 869	19 817 018	Not subject to LIFO costing .....	53 859 883	51 695 805
Valuation method not reported <sup>2</sup> .....	7 416 657	3 133 328	Valuation method not reported <sup>2</sup> .....	3 405 160	6 545 647
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	174 952	179 212	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	378 821	117 476
<b>333, MACHINERY MFG</b>			<b>337, FURNITURE &amp; RELATED PRODUCT MFG</b>		
<b>Total inventories</b> .....	<b>43 073 890</b>	<b>44 490 878</b>	<b>Total inventories</b> .....	<b>7 359 747</b>	<b>7 526 301</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	14 675 995	14 588 375	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	1 928 236	2 005 233
LIFO reserve .....	3 768 427	3 485 173	LIFO reserve .....	450 508	444 394
LIFO value .....	10 907 568	11 103 202	LIFO value .....	1 477 728	1 560 839
Not subject to LIFO costing .....	20 982 482	26 780 597	Not subject to LIFO costing .....	3 339 773	4 647 837
Valuation method not reported <sup>2</sup> .....	7 175 586	2 872 945	Valuation method not reported <sup>2</sup> .....	2 022 004	809 387
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	239 827	248 961	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	69 734	63 844
<b>334, COMPUTER &amp; ELECTRONIC PRODUCT MFG</b>			<b>339, MISCELLANEOUS MFG</b>		
<b>Total inventories</b> .....	<b>50 060 531</b>	<b>53 045 620</b>	<b>Total inventories</b> .....	<b>15 263 747</b>	<b>15 538 943</b>
Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	2 652 414	2 769 723	Subject to Last-in, First-out (LIFO) costing <sup>1</sup> .....	2 859 407	2 871 590
LIFO reserve .....	458 829	461 081	LIFO reserve .....	631 363	630 567
LIFO value .....	2 193 585	2 308 642	LIFO value .....	2 228 044	2 241 023
Not subject to LIFO costing .....	41 537 144	47 646 895	Not subject to LIFO costing .....	8 496 654	11 059 424
Valuation method not reported <sup>2</sup> .....	5 815 292	2 556 729	Valuation method not reported <sup>2</sup> .....	3 864 777	1 565 318
Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	55 681	72 273	Amount subject to LIFO reported without associated reserve and value <sup>3</sup> .....	42 909	42 611

<sup>1</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>2</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>3</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated reserve and value figures.

**Table 3–3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>31-33</b>	<b>Manufacturing</b> .....	<b>316 952</b>	<b>362 829</b>	<b>16 805 127</b>	<b>569 808 845</b>	<b>12 065 257</b>	<b>24 183 271</b>	<b>338 267 197</b>	<b>1 825 688 027</b>	<b>2 015 424 556</b>	<b>3 834 700 920</b>	<b>151 510 757</b>
	Type of company ownership											
	Single-establishment companies ..	295 876	295 876	5 444 904	154 808 300	3 986 543	7 480 082	90 668 030	346 767 378	317 521 006	663 002 215	28 317 507
	Corporate .....	226 374	226 374	4 889 203	142 037 493	3 558 097	6 762 886	82 558 336	315 228 793	286 841 643	601 011 786	24 950 517
	Noncorporate .....	69 502	69 502	555 701	12 770 807	428 446	717 196	8 109 694	31 538 585	30 679 363	61 990 429	3 366 990
	Multiestablishment companies .....	21 076	66 953	11 360 223	415 000 545	8 078 714	16 703 189	247 599 167	1 478 920 649	1 697 903 550	3 171 698 705	123 193 250
	Corporate .....	19 815	63 159	10 838 792	396 836 091	7 700 311	15 933 445	236 636 630	1 418 412 496	1 610 123 931	3 023 215 639	117 667 647
	Noncorporate .....	1 261	3 794	521 431	18 164 454	378 403	769 744	10 962 537	60 508 153	87 779 619	148 483 066	5 525 603
	Legal form of organization											
	Corporate .....	246 189	289 533	15 727 995	538 873 584	11 258 408	22 696 331	319 194 966	1 733 641 289	1 896 965 574	3 624 227 425	142 618 164
	Noncorporate .....	70 763	73 296	1 077 132	30 935 261	806 849	1 486 940	19 072 231	92 046 738	118 458 982	210 473 495	8 892 593
	Individual proprietorships .....	50 503	50 718	289 925	5 902 359	230 578	358 745	3 881 025	13 485 964	12 244 996	25 616 066	976 034
	Partnerships .....	13 208	14 049	313 768	9 420 892	233 584	452 748	5 867 164	29 998 181	43 730 225	73 884 662	3 068 430
	Other and unknown .....	7 052	8 529	473 439	15 612 010	342 687	675 447	9 324 042	48 562 593	62 483 761	110 972 767	4 848 129



**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>311</b>	<b>Food mfg . . . . .</b>	<b>21 958</b>	<b>26 302</b>	<b>1 466 956</b>	<b>38 366 240</b>	<b>1 112 307</b>	<b>2 234 216</b>	<b>25 185 751</b>	<b>163 675 301</b>	<b>258 537 984</b>	<b>421 737 017</b>	<b>10 799 165</b>
	Type of company ownership											
	Single-establishment companies . . . . .	19 745	19 745	343 640	7 625 312	245 418	430 757	4 460 831	22 680 999	36 635 297	59 228 225	1 755 132
	Corporate . . . . .	13 212	13 212	291 169	6 646 852	207 089	370 416	3 846 019	19 663 242	31 334 783	50 931 763	1 454 882
	Noncorporate . . . . .	6 533	6 533	52 471	978 460	38 329	60 341	614 812	3 017 757	5 300 514	8 296 462	300 250
	Multiestablishment companies . . . . .	2 213	6 557	1 123 316	30 740 928	866 889	1 803 459	20 724 920	140 994 302	221 902 687	362 508 792	9 044 033
	Corporate . . . . .	1 923	5 688	1 018 743	28 150 145	783 513	1 641 442	18 944 332	131 650 700	196 748 188	328 008 289	8 281 649
	Noncorporate . . . . .	290	869	104 573	2 590 783	83 376	162 017	1 780 588	9 343 602	25 154 499	34 500 503	762 384
	Legal form of organization											
	Corporate . . . . .	15 135	18 900	1 309 912	34 796 997	990 602	2 011 858	22 790 351	151 313 942	228 082 971	378 940 052	9 736 531
	Noncorporate . . . . .	6 823	7 402	157 044	3 569 243	121 705	222 358	2 395 400	12 361 359	30 455 013	42 796 965	1 062 634
	Individual proprietorships . . . . .	4 705	4 769	26 499	399 765	19 656	28 365	257 666	1 189 659	2 395 772	3 585 103	96 546
	Partnerships . . . . .	1 436	1 548	39 145	954 421	29 601	55 105	622 025	3 071 917	6 915 093	9 977 541	253 191
	Other and unknown . . . . .	682	1 085	91 400	2 215 057	72 448	138 888	1 515 709	8 099 783	21 144 148	29 234 321	712 897
<b>312</b>	<b>Beverage &amp; tobacco product mfg . . . . .</b>	<b>2 237</b>	<b>2 727</b>	<b>175 711</b>	<b>6 735 295</b>	<b>98 389</b>	<b>196 693</b>	<b>3 554 784</b>	<b>56 433 891</b>	<b>41 276 110</b>	<b>96 971 368</b>	<b>3 100 543</b>
	Type of company ownership											
	Single-establishment companies . . . . .	1 955	1 955	30 456	797 403	16 688	28 849	382 423	3 321 259	3 323 504	6 517 560	300 759
	Corporate . . . . .	1 484	1 484	25 477	680 711	14 048	24 833	330 812	2 912 234	2 925 797	5 743 036	258 350
	Noncorporate . . . . .	471	4 979	4 979	116 692	2 640	4 016	51 611	409 025	397 707	774 524	42 409
	Multiestablishment companies . . . . .	282	772	145 255	5 937 892	81 701	167 844	3 172 361	53 112 632	37 952 606	90 453 808	2 799 784
	Corporate . . . . .	256	713	139 041	5 723 944	77 707	159 105	3 039 047	51 678 560	36 792 248	87 906 801	2 702 160
	Noncorporate . . . . .	26	59	6 214	213 948	3 994	8 739	133 314	1 434 072	1 160 358	2 547 007	97 624
	Legal form of organization											
	Corporate . . . . .	1 740	2 197	164 518	6 404 655	91 755	183 938	3 369 859	54 590 794	39 718 045	93 649 837	2 960 510
	Noncorporate . . . . .	497	530	11 193	330 640	6 634	12 755	184 925	1 843 097	1 558 065	3 321 531	140 033
	Individual proprietorships . . . . .	216	216	961	20 274	570	847	9 355	52 704	71 554	121 149	8 132
	Partnerships . . . . .	217	228	5 069	136 696	2 538	4 343	62 593	575 321	578 235	1 089 212	55 472
	Other and unknown . . . . .	64	86	5 163	173 670	3 526	7 565	112 977	1 215 072	908 276	2 111 170	76 429
<b>313</b>	<b>Textile mills . . . . .</b>	<b>3 863</b>	<b>4 694</b>	<b>391 899</b>	<b>10 058 482</b>	<b>332 385</b>	<b>695 900</b>	<b>7 439 112</b>	<b>23 696 948</b>	<b>34 876 899</b>	<b>58 707 401</b>	<b>2 691 704</b>
	Type of company ownership											
	Single-establishment companies . . . . .	3 332	3 332	85 210	2 165 854	69 403	139 439	1 420 037	5 105 750	5 524 760	10 625 451	486 876
	Corporate . . . . .	2 690	2 690	77 886	1 993 109	63 249	127 968	1 304 786	4 708 263	5 119 908	9 827 382	449 416
	Noncorporate . . . . .	642	642	7 324	172 745	6 154	11 471	115 251	397 487	404 852	798 069	37 460
	Multiestablishment companies . . . . .	531	1 362	306 689	7 892 628	262 982	556 461	6 019 075	18 591 198	29 352 139	48 081 950	2 204 828
	Corporate . . . . .	509	1 314	298 151	7 658 676	255 869	540 767	5 845 761	18 042 346	28 730 263	46 912 636	2 133 439
	Noncorporate . . . . .	22	48	8 538	233 952	7 113	15 694	173 314	548 852	621 876	1 169 314	71 389
	Legal form of organization											
	Corporate . . . . .	3 199	4 004	376 037	9 651 785	319 118	668 735	7 150 547	22 750 609	33 850 171	56 740 018	2 582 855
	Noncorporate . . . . .	664	690	15 862	406 697	13 267	27 165	288 565	946 339	1 026 728	1 967 383	108 849
	Individual proprietorships . . . . .	445	450	3 562	72 831	3 065	5 891	54 411	198 383	199 717	401 594	23 593
	Partnerships . . . . .	159	169	6 273	159 760	5 288	10 485	115 574	349 176	442 464	789 205	45 277
	Other and unknown . . . . .	60	71	6 027	174 106	4 914	10 789	118 580	398 780	384 547	776 584	39 979
<b>314</b>	<b>Textile product mills . . . . .</b>	<b>7 516</b>	<b>7 899</b>	<b>235 441</b>	<b>5 088 653</b>	<b>189 082</b>	<b>366 775</b>	<b>3 410 873</b>	<b>13 613 111</b>	<b>17 671 553</b>	<b>31 051 835</b>	<b>718 728</b>
	Type of company ownership											
	Single-establishment companies . . . . .	7 053	7 053	103 514	2 013 892	81 344	142 072	1 251 702	3 979 273	4 015 010	7 978 216	258 522
	Corporate . . . . .	4 689	4 689	88 731	1 776 290	69 326	123 005	1 098 829	3 493 891	3 528 692	7 009 337	229 263
	Noncorporate . . . . .	2 364	2 364	14 783	237 602	12 018	19 067	152 873	485 382	486 318	968 879	29 259
	Multiestablishment companies . . . . .	463	846	131 927	3 074 761	107 738	224 703	2 159 171	9 633 838	13 656 543	23 073 619	460 206
	Corporate . . . . .	436	803	127 103	2 948 545	103 888	217 099	2 085 236	9 174 633	13 149 879	22 115 445	446 561
	Noncorporate . . . . .	27	43	4 824	126 216	3 850	7 604	73 935	459 205	506 664	958 174	13 645
	Legal form of organization											
	Corporate . . . . .	5 125	5 492	215 834	4 724 835	173 214	340 104	3 184 065	12 668 524	16 678 571	29 124 782	675 824
	Noncorporate . . . . .	2 391	2 407	19 607	363 818	15 868	26 671	226 808	944 587	992 982	1 927 053	42 904
	Individual proprietorships . . . . .	1 852	1 854	8 108	117 680	6 666	10 161	76 701	241 257	233 566	473 112	14 118
	Partnerships . . . . .	366	373	5 804	111 749	4 732	8 517	76 837	295 971	367 201	662 800	12 447
	Other and unknown . . . . .	173	180	5 695	134 389	4 470	7 993	73 270	407 359	392 215	791 141	16 339

**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>315</b>	<b>Apparel mfg . . . . .</b>	<b>15 839</b>	<b>16 989</b>	<b>710 796</b>	<b>12 582 352</b>	<b>592 290</b>	<b>1 060 314</b>	<b>8 799 442</b>	<b>33 780 193</b>	<b>34 683 500</b>	<b>68 018 116</b>	<b>941 178</b>
	Type of company ownership											
	Single-establishment companies . . . . .	15 005	15 005	355 806	5 895 723	296 726	506 313	4 017 972	12 487 122	11 946 734	24 315 221	385 316
	Corporate . . . . .	10 384	10 384	297 877	5 132 489	246 790	430 642	3 482 860	10 984 550	10 825 501	21 697 811	332 878
	Noncorporate . . . . .	4 621	4 621	57 929	763 234	49 936	75 671	535 112	1 502 572	1 121 233	2 617 410	52 438
	Multiestablishment companies . . . . .	834	1 984	354 990	6 686 629	295 564	554 001	4 781 470	21 293 071	22 736 766	43 702 895	555 862
	Corporate . . . . .	773	1 866	340 735	6 427 669	284 198	533 395	4 615 148	20 491 748	21 974 805	42 157 213	538 149
	Noncorporate . . . . .	61	118	14 255	258 960	11 366	20 606	166 322	801 323	761 961	1 545 682	17 713
	Legal form of organization											
	Corporate . . . . .	11 157	12 250	638 612	11 560 158	530 988	964 037	8 098 008	31 476 298	32 800 306	63 855 024	871 027
	Noncorporate . . . . .	4 682	4 739	72 184	1 022 194	61 302	96 277	701 434	2 303 895	1 883 194	4 163 092	70 151
	Individual proprietorships . . . . .	3 694	3 700	38 342	412 658	34 663	50 074	341 051	794 611	445 661	1 230 922	27 867
	Partnerships . . . . .	623	646	17 860	339 714	13 388	22 689	176 026	790 584	695 273	1 491 111	25 392
	Other and unknown . . . . .	365	393	15 982	269 822	13 251	23 514	184 357	718 700	742 260	1 441 059	16 892
<b>316</b>	<b>Leather &amp; allied product mfg . . . . .</b>	<b>1 727</b>	<b>1 861</b>	<b>85 115</b>	<b>1 832 341</b>	<b>68 733</b>	<b>133 908</b>	<b>1 185 870</b>	<b>5 407 999</b>	<b>5 480 529</b>	<b>10 876 510</b>	<b>167 254</b>
	Type of company ownership											
	Single-establishment companies . . . . .	1 566	1 566	32 144	639 523	25 553	48 896	406 735	1 524 093	1 486 784	3 010 227	44 152
	Corporate . . . . .	1 143	1 143	28 121	572 761	22 298	42 898	362 423	1 357 740	1 347 984	2 706 521	39 881
	Noncorporate . . . . .	423	423	4 023	66 762	3 255	5 998	44 312	166 353	138 800	303 706	4 271
	Multiestablishment companies . . . . .	161	295	52 971	1 192 818	43 180	85 012	779 135	3 883 906	3 993 745	7 866 283	123 102
	Corporate . . . . .	153	277	48 803	1 121 001	39 392	77 443	723 646	3 712 148	3 837 533	7 536 538	119 025
	Noncorporate . . . . .	8	18	4 168	71 817	3 788	7 569	55 489	171 758	156 212	329 745	4 077
	Legal form of organization											
	Corporate . . . . .	1 296	1 420	76 924	1 693 762	61 690	120 341	1 086 069	5 069 888	5 185 517	10 243 059	158 906
	Noncorporate . . . . .	431	441	8 191	138 579	7 043	13 567	99 801	338 111	295 012	633 451	8 348
	Individual proprietorships . . . . .	311	311	2 485	34 371	2 166	3 998	26 017	77 764	76 231	151 032	1 807
	Partnerships . . . . .	74	74	1 187	19 436	865	1 514	11 848	61 130	46 078	109 754	1 190
	Other and unknown . . . . .	46	56	4 519	84 772	4 012	8 055	61 936	199 217	172 703	372 665	5 351
<b>321</b>	<b>Wood product mfg . . . . .</b>	<b>15 621</b>	<b>17 367</b>	<b>570 034</b>	<b>14 319 193</b>	<b>476 225</b>	<b>948 438</b>	<b>10 567 993</b>	<b>33 493 004</b>	<b>55 299 641</b>	<b>88 470 180</b>	<b>2 869 234</b>
	Type of company ownership											
	Single-establishment companies . . . . .	14 470	14 470	256 805	5 765 408	209 951	394 964	4 043 963	12 509 135	18 045 039	30 430 822	1 028 109
	Corporate . . . . .	9 484	9 484	216 003	5 018 065	174 956	336 739	3 465 082	10 761 164	15 679 749	26 324 713	823 507
	Noncorporate . . . . .	4 986	4 986	40 802	747 343	34 995	58 225	578 881	1 747 971	2 365 290	4 106 109	204 602
	Multiestablishment companies . . . . .	1 151	2 897	313 229	8 553 785	266 274	553 474	6 524 030	20 983 869	37 254 602	58 039 358	1 841 125
	Corporate . . . . .	1 070	2 684	290 520	7 969 880	246 570	513 381	6 069 090	19 512 512	33 980 420	53 321 119	1 740 206
	Noncorporate . . . . .	81	213	22 709	583 905	19 704	40 093	454 940	1 471 357	3 274 182	4 718 239	100 919
	Legal form of organization											
	Corporate . . . . .	10 554	12 168	506 523	12 987 945	421 526	850 120	9 534 172	30 273 676	49 660 169	79 645 832	2 563 713
	Noncorporate . . . . .	5 067	5 199	63 511	1 331 248	54 699	98 318	1 033 821	3 219 328	5 639 472	8 824 348	305 521
	Individual proprietorships . . . . .	3 472	3 480	21 162	350 521	18 366	28 561	281 816	826 932	1 206 368	2 034 216	68 015
	Partnerships . . . . .	1 129	1 181	20 070	466 543	17 339	32 991	367 343	1 278 949	1 952 009	3 216 557	98 195
	Other and unknown . . . . .	466	538	22 279	514 184	18 994	36 766	384 662	1 113 447	2 481 095	3 573 575	139 311
<b>322</b>	<b>Paper mfg . . . . .</b>	<b>3 808</b>	<b>5 868</b>	<b>574 274</b>	<b>22 311 971</b>	<b>440 096</b>	<b>935 795</b>	<b>15 187 973</b>	<b>70 300 235</b>	<b>80 189 518</b>	<b>150 295 890</b>	<b>8 595 133</b>
	Type of company ownership											
	Single-establishment companies . . . . .	3 120	3 120	105 960	3 370 040	77 659	151 834	1 949 711	7 771 765	8 758 911	16 514 664	701 305
	Corporate . . . . .	2 759	2 759	99 376	3 148 452	72 725	142 046	1 810 284	7 067 499	7 868 552	14 918 330	630 330
	Noncorporate . . . . .	361	361	6 584	221 588	4 934	9 788	139 427	704 266	890 359	1 596 334	70 975
	Multiestablishment companies . . . . .	688	2 748	468 314	18 941 931	362 437	783 961	13 238 262	62 528 470	71 430 607	133 781 226	7 893 828
	Corporate . . . . .	657	2 683	458 702	18 542 403	355 189	767 955	12 973 742	61 172 840	70 059 107	131 040 856	7 659 000
	Noncorporate . . . . .	31	65	9 612	399 528	7 248	16 006	264 520	1 355 630	1 371 500	2 740 370	234 828
	Legal form of organization											
	Corporate . . . . .	3 416	5 442	558 078	21 690 855	427 914	910 001	14 784 026	68 240 339	77 927 659	145 959 186	8 289 330
	Noncorporate . . . . .	392	426	16 196	621 116	12 182	25 794	403 947	2 059 896	2 261 859	4 336 704	305 803
	Individual proprietorships . . . . .	182	186	1 784	48 689	1 302	2 330	28 512	113 796	150 645	265 126	10 828
	Partnerships . . . . .	105	117	5 856	228 182	4 536	9 794	152 815	936 988	954 316	1 889 589	73 523
	Other and unknown . . . . .	105	123	8 556	344 245	6 344	13 670	222 620	1 009 112	1 156 898	2 181 989	221 452

**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>323</b>	<b>Printing &amp; related support activities . . . .</b>	<b>40 987</b>	<b>42 863</b>	<b>834 404</b>	<b>26 022 991</b>	<b>607 637</b>	<b>1 164 310</b>	<b>16 336 416</b>	<b>58 392 618</b>	<b>39 219 976</b>	<b>97 485 138</b>	<b>5 052 110</b>
	Type of company ownership											
	Single-establishment companies .	39 563	39 563	497 110	14 837 994	356 070	654 740	8 964 912	29 766 028	18 313 588	48 033 564	2 430 965
	Corporate . . . . .	28 751	28 751	442 670	13 629 133	315 267	592 594	8 199 099	27 208 003	16 693 892	43 856 357	2 213 412
	Noncorporate . . . . .	10 812	10 812	54 440	1 208 861	40 803	62 146	765 813	2 558 025	1 619 696	4 177 207	217 553
	Multiestablishment companies . . .	1 424	3 300	337 294	11 184 997	251 567	509 570	7 371 504	28 626 590	20 906 388	49 451 574	2 621 145
	Corporate . . . . .	1 351	3 152	324 341	10 761 967	241 288	488 440	7 078 573	27 670 786	20 095 478	47 689 499	2 542 541
	Noncorporate . . . . .	73	148	12 953	423 030	10 279	21 130	292 931	955 804	810 910	1 762 075	78 604
	Legal form of organization											
	Corporate . . . . .	30 102	31 903	767 011	24 391 100	556 555	1 081 034	15 277 672	54 878 789	36 789 370	91 545 856	4 755 953
	Noncorporate . . . . .	10 885	10 960	67 393	1 631 891	51 082	83 276	1 058 744	3 513 829	2 430 606	5 939 282	296 157
	Individual proprietorships . . . . .	8 158	8 173	33 915	687 184	25 740	37 660	450 631	1 465 469	905 439	2 370 716	123 926
	Partnerships . . . . .	1 831	1 854	18 762	513 108	14 497	25 728	346 240	1 114 420	858 892	1 971 891	91 533
	Other and unknown . . . . .	896	933	14 716	431 599	10 845	19 888	261 873	933 940	666 275	1 596 675	80 698
<b>324</b>	<b>Petroleum &amp; coal products mfg . . . . .</b>	<b>1 166</b>	<b>2 146</b>	<b>107 625</b>	<b>5 546 082</b>	<b>71 554</b>	<b>161 036</b>	<b>3 421 272</b>	<b>37 610 773</b>	<b>139 509 979</b>	<b>177 393 098</b>	<b>4 755 162</b>
	Type of company ownership											
	Single-establishment companies .	763	763	11 688	468 247	7 235	14 182	241 141	1 548 705	2 938 189	4 495 090	176 237
	Corporate . . . . .	685	685	10 787	433 579	6 681	13 110	219 154	1 348 253	2 610 829	3 966 526	156 231
	Noncorporate . . . . .	78	78	901	34 668	554	1 072	21 987	200 452	327 360	528 564	20 006
	Multiestablishment companies . . .	403	1 383	95 937	5 077 835	64 319	146 854	3 180 131	36 062 068	136 571 790	172 898 008	4 578 925
	Corporate . . . . .	376	1 313	88 221	4 614 671	59 196	135 624	2 899 480	33 771 428	124 730 027	158 666 041	4 143 199
	Noncorporate . . . . .	27	70	7 716	463 164	5 123	11 230	280 651	2 290 640	11 841 763	14 231 967	435 726
	Legal form of organization											
	Corporate . . . . .	1 061	1 998	99 008	5 048 250	65 877	148 734	3 118 634	35 119 681	127 340 856	162 632 567	4 299 430
	Noncorporate . . . . .	105	148	8 617	497 832	5 677	12 302	302 638	2 491 092	12 169 123	14 760 531	455 732
	Individual proprietorships . . . . .	24	24	101	3 817	73	130	2 533	13 476	42 988	56 803	2 961
	Partnerships . . . . .	50	68	4 318	274 342	2 803	5 862	165 097	1 272 379	7 157 909	8 532 229	218 331
	Other and unknown . . . . .	31	56	4 198	219 673	2 801	6 310	135 008	1 205 237	4 968 226	6 171 499	234 440
<b>325</b>	<b>Chemical mfg . . . . .</b>	<b>9 626</b>	<b>13 474</b>	<b>882 645</b>	<b>39 835 717</b>	<b>512 152</b>	<b>1 068 966</b>	<b>19 192 170</b>	<b>224 684 500</b>	<b>192 199 632</b>	<b>415 616 508</b>	<b>21 669 251</b>
	Type of company ownership											
	Single-establishment companies .	7 926	7 926	144 425	5 016 176	83 525	154 006	2 192 253	16 593 081	16 374 783	32 968 769	1 519 303
	Corporate . . . . .	7 112	7 112	133 771	4 669 166	77 157	142 284	2 023 967	15 242 413	14 602 937	29 847 535	1 366 471
	Noncorporate . . . . .	814	814	10 654	347 010	6 368	11 722	168 286	1 350 668	1 771 846	3 121 234	152 832
	Multiestablishment companies . . .	1 700	5 548	738 220	34 819 541	428 627	914 960	16 999 917	208 091 419	175 824 849	382 647 739	20 149 948
	Corporate . . . . .	1 580	5 226	701 861	33 114 000	407 409	869 867	16 142 602	197 875 347	164 618 727	361 239 310	18 746 102
	Noncorporate . . . . .	120	322	36 359	1 705 541	21 218	45 093	857 315	10 216 072	11 206 122	21 408 429	1 403 846
	Legal form of organization											
	Corporate . . . . .	8 692	12 338	835 632	37 783 166	484 566	1 012 151	18 166 569	213 117 760	179 221 664	391 086 845	20 112 573
	Noncorporate . . . . .	934	1 136	47 013	2 052 551	27 586	56 815	1 025 601	11 566 740	12 977 968	24 529 663	1 556 678
	Individual proprietorships . . . . .	380	387	4 566	144 310	2 920	5 431	80 062	471 921	524 136	998 451	19 000
	Partnerships . . . . .	342	421	18 561	817 309	11 292	23 336	423 101	4 978 795	5 681 017	10 651 696	497 890
	Other and unknown . . . . .	212	328	23 886	1 090 932	13 374	28 048	522 438	6 116 024	6 772 815	12 879 516	1 039 788
<b>326</b>	<b>Plastics &amp; rubber products mfg . . . . .</b>	<b>13 798</b>	<b>16 821</b>	<b>1 023 060</b>	<b>29 804 904</b>	<b>805 689</b>	<b>1 607 820</b>	<b>19 828 676</b>	<b>81 349 082</b>	<b>77 994 466</b>	<b>159 161 346</b>	<b>7 836 663</b>
	Type of company ownership											
	Single-establishment companies .	11 787	11 787	339 305	8 830 088	263 651	500 934	5 465 817	20 176 733	18 248 853	38 391 568	1 898 282
	Corporate . . . . .	10 113	10 113	314 083	8 227 678	243 668	464 813	5 080 911	18 689 554	16 902 090	35 564 918	1 732 311
	Noncorporate . . . . .	1 674	1 674	25 222	602 410	19 983	36 121	384 906	1 487 179	1 346 763	2 826 650	165 971
	Multiestablishment companies . . .	2 011	5 034	683 755	20 974 816	542 038	1 106 886	14 362 859	61 172 349	59 745 613	120 769 778	5 938 381
	Corporate . . . . .	1 937	4 843	662 594	20 375 677	525 697	1 074 850	13 960 461	59 501 816	58 144 594	117 513 304	5 765 188
	Noncorporate . . . . .	74	191	21 161	599 139	16 341	32 036	402 398	1 670 533	1 601 019	3 256 474	173 193
	Legal form of organization											
	Corporate . . . . .	12 050	14 956	976 677	28 603 355	769 365	1 539 663	19 041 372	78 191 370	75 046 684	153 078 222	7 497 499
	Noncorporate . . . . .	1 748	1 865	46 383	1 201 549	36 324	68 157	787 304	3 157 712	2 947 782	6 083 124	339 164
	Individual proprietorships . . . . .	999	1 010	8 761	192 896	7 102	11 924	128 564	411 384	365 109	777 218	35 632
	Partnerships . . . . .	453	508	18 003	496 915	14 202	27 461	341 694	1 354 890	1 302 236	2 650 436	156 198
	Other and unknown . . . . .	296	347	19 619	511 738	15 020	28 772	317 046	1 391 438	1 280 437	2 655 470	147 334

**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Companies <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>327</b>	<b>Nonmetallic mineral product mfg</b> .....	<b>11 921</b>	<b>16 310</b>	<b>501 471</b>	<b>16 172 049</b>	<b>388 898</b>	<b>797 684</b>	<b>11 319 464</b>	<b>49 425 491</b>	<b>37 072 480</b>	<b>86 464 708</b>	<b>4 798 921</b>
	Type of company ownership											
	Single-establishment companies .	10 464	10 464	160 433	4 440 642	120 073	227 779	2 867 362	10 499 239	8 620 407	19 099 174	970 960
	Corporate .....	7 939	7 939	143 342	4 032 695	106 727	204 536	2 589 808	9 466 113	7 764 719	17 209 925	846 288
	Noncorporate .....	2 525	2 525	17 091	407 947	13 346	23 243	277 554	1 033 126	855 688	1 889 249	124 672
	Multiestablishment companies ...	1 457	5 846	341 038	11 731 407	268 825	569 905	8 452 102	38 926 252	28 452 073	67 365 534	3 827 961
	Corporate .....	1 388	5 483	314 673	10 769 914	247 236	525 812	7 709 099	35 731 187	26 186 530	61 847 725	3 454 998
	Noncorporate .....	69	363	26 365	961 493	21 589	44 093	743 003	3 195 065	2 265 543	5 517 809	372 963
	Legal form of organization											
	Corporate .....	9 327	13 422	458 015	14 802 609	353 963	730 348	10 298 907	45 197 300	33 951 249	79 057 650	4 301 286
	Noncorporate .....	2 594	2 888	43 456	1 369 440	34 935	67 336	1 020 557	4 228 191	3 121 231	7 407 058	497 635
	Individual proprietorships .....	1 778	1 789	7 855	159 664	6 205	9 639	110 394	380 882	300 100	683 469	34 744
	Partnerships .....	533	695	13 007	424 758	10 202	20 698	305 311	1 406 837	1 260 352	2 681 498	117 989
	Other and unknown .....	283	404	22 594	785 018	18 528	36 999	604 852	2 440 472	1 560 779	4 042 091	344 902
<b>331</b>	<b>Primary metal mfg</b> .....	<b>4 076</b>	<b>5 059</b>	<b>605 085</b>	<b>23 811 233</b>	<b>479 552</b>	<b>1 024 675</b>	<b>17 354 552</b>	<b>68 749 487</b>	<b>99 343 265</b>	<b>168 117 728</b>	<b>6 515 752</b>
	Type of company ownership											
	Single-establishment companies .	3 172	3 172	122 827	3 975 114	96 762	195 022	2 690 889	9 544 293	11 204 803	20 685 100	868 607
	Corporate .....	2 749	2 749	112 433	3 629 719	88 503	178 464	2 451 951	8 521 167	9 783 314	18 272 480	768 891
	Noncorporate .....	423	423	10 394	345 395	8 259	16 558	238 938	1 023 126	1 421 489	2 412 620	99 716
	Multiestablishment companies ...	904	1 887	482 258	19 836 119	382 790	829 653	14 663 663	59 205 194	88 138 462	147 432 628	5 647 145
	Corporate .....	860	1 802	461 489	18 985 000	366 149	793 311	14 042 082	56 690 312	83 754 624	140 326 983	5 393 765
	Noncorporate .....	44	85	20 769	851 119	16 641	36 342	621 581	2 514 882	4 383 838	7 105 645	253 380
	Legal form of organization											
	Corporate .....	3 609	4 551	573 922	22 614 719	454 652	971 775	16 494 033	65 211 479	93 537 938	158 599 463	6 162 656
	Noncorporate .....	467	508	31 163	1 196 514	24 900	52 900	860 519	3 538 008	5 805 327	9 518 265	353 096
	Individual proprietorships .....	249	251	2 316	58 674	1 939	3 525	41 836	136 178	108 256	244 702	8 323
	Partnerships .....	138	157	15 022	618 365	11 996	27 119	457 463	2 109 972	3 674 336	5 949 398	189 578
	Other and unknown .....	80	100	13 825	519 475	10 965	22 256	361 220	1 291 858	2 022 735	3 324 165	155 195
<b>332</b>	<b>Fabricated metal product mfg</b> .....	<b>58 516</b>	<b>62 384</b>	<b>1 763 772</b>	<b>56 631 583</b>	<b>1 327 053</b>	<b>2 674 948</b>	<b>36 251 771</b>	<b>133 493 077</b>	<b>110 067 843</b>	<b>242 813 453</b>	<b>9 368 661</b>
	Type of company ownership											
	Single-establishment companies .	54 888	54 888	941 631	29 342 921	712 161	1 392 287	18 508 365	60 484 841	41 567 906	101 657 396	4 411 570
	Corporate .....	43 218	43 218	855 186	27 055 271	645 215	1 277 279	17 000 785	55 396 973	37 553 342	92 598 204	3 932 442
	Noncorporate .....	11 670	11 670	86 445	2 287 650	66 946	115 008	1 507 580	5 087 868	4 014 564	9 059 192	479 128
	Multiestablishment companies ...	3 628	7 496	822 141	27 288 662	614 892	1 282 661	17 743 406	73 008 236	68 499 937	141 156 057	4 957 091
	Corporate .....	3 453	7 153	785 731	25 993 741	588 574	1 225 354	16 903 188	69 680 127	65 552 631	134 916 770	4 765 590
	Noncorporate .....	175	343	36 410	1 294 921	26 318	57 307	840 218	3 328 109	2 947 306	6 239 287	191 501
	Legal form of organization											
	Corporate .....	46 671	50 371	1 640 917	53 049 012	1 233 789	2 502 633	33 903 973	125 077 100	103 105 973	227 514 974	8 698 032
	Noncorporate .....	11 845	12 013	122 855	3 582 571	93 264	172 315	2 347 798	8 415 977	6 961 870	15 298 479	670 629
	Individual proprietorships .....	8 432	8 451	46 358	1 114 169	37 099	59 436	762 286	2 275 385	1 300 222	3 572 489	196 748
	Partnerships .....	1 996	2 057	29 980	929 972	22 383	43 920	597 349	2 660 492	3 090 708	5 699 802	247 714
	Other and unknown .....	1 417	1 505	46 517	1 538 430	33 782	68 959	988 163	3 480 100	2 570 940	6 026 188	226 167
<b>333</b>	<b>Machinery mfg</b> .....	<b>27 983</b>	<b>30 599</b>	<b>1 420 512</b>	<b>53 012 226</b>	<b>936 047</b>	<b>1 895 580</b>	<b>29 106 922</b>	<b>137 934 706</b>	<b>133 291 232</b>	<b>270 687 165</b>	<b>8 835 703</b>
	Type of company ownership											
	Single-establishment companies .	25 102	25 102	499 065	17 931 233	337 317	668 955	9 990 657	36 344 245	28 532 174	64 649 242	2 485 477
	Corporate .....	21 696	21 696	465 215	16 857 871	313 455	625 243	9 351 900	34 195 594	26 907 605	60 893 490	2 323 320
	Noncorporate .....	3 406	3 406	33 850	1 073 362	23 862	43 712	638 757	2 148 651	1 624 569	3 755 752	162 157
	Multiestablishment companies ...	2 881	5 497	921 447	35 080 993	598 730	1 226 625	19 116 265	101 590 461	104 759 058	206 037 923	6 350 226
	Corporate .....	2 756	5 250	879 849	33 457 194	572 145	1 173 894	18 265 796	97 363 628	100 118 883	197 197 353	6 086 452
	Noncorporate .....	125	247	41 598	1 623 799	26 585	52 731	850 469	4 226 833	4 640 175	8 840 570	263 774
	Legal form of organization											
	Corporate .....	24 452	26 946	1 345 064	50 315 065	885 600	1 799 137	27 617 696	131 559 222	127 026 488	258 090 843	8 409 772
	Noncorporate .....	3 531	3 653	75 448	2 697 161	50 447	96 443	1 489 226	6 375 484	6 264 744	12 596 322	425 931
	Individual proprietorships .....	2 306	2 316	18 160	588 563	13 019	22 616	354 594	1 084 257	829 053	1 919 636	75 855
	Partnerships .....	733	769	23 491	845 575	15 873	30 347	468 490	1 987 099	2 653 738	4 630 709	186 007
	Other and unknown .....	492	568	33 797	1 263 023	21 555	43 480	666 142	3 304 128	2 781 953	6 045 977	164 069

**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>334</b>	<b>Computer &amp; electronic product mfg</b> .....	<b>15 492</b>	<b>17 435</b>	<b>1 691 146</b>	<b>72 483 848</b>	<b>877 002</b>	<b>1 746 314</b>	<b>26 117 539</b>	<b>252 629 768</b>	<b>187 875 131</b>	<b>439 381 300</b>	<b>24 768 490</b>
	Type of company ownership											
	Single-establishment companies .	13 543	13 543	376 252	13 792 791	218 175	418 002	5 437 491	30 986 610	23 603 363	54 636 202	4 330 653
	Corporate .....	12 252	12 252	351 886	12 961 774	202 321	386 653	5 040 309	28 496 871	21 868 561	50 449 548	3 462 015
	Noncorporate .....	1 291	1 291	24 366	831 017	15 854	31 349	397 182	2 489 739	1 734 802	4 186 654	868 638
	Multiestablishment companies ...	1 949	3 892	1 314 894	58 691 057	658 827	1 328 312	20 680 048	221 643 158	164 271 768	384 745 098	20 437 837
	Corporate .....	1 877	3 738	1 274 567	56 962 912	637 594	1 285 823	20 027 065	216 851 120	160 646 586	376 475 796	20 131 706
	Noncorporate .....	72	154	40 327	1 728 145	21 233	42 489	652 983	4 792 038	3 625 182	8 269 302	306 131
	Legal form of organization											
	Corporate .....	14 129	15 990	1 626 453	69 924 686	839 915	1 672 476	25 067 374	245 347 991	182 515 147	426 925 344	23 593 721
	Noncorporate .....	1 363	1 445	64 693	2 559 162	37 087	73 838	1 050 165	7 281 777	5 359 984	12 455 956	1 174 769
	Individual proprietorships .....	765	771	11 047	415 184	6 777	12 093	150 174	1 224 302	878 034	1 985 142	103 481
	Partnerships .....	368	382	14 103	514 275	8 308	18 502	226 824	1 796 748	1 865 578	3 615 753	506 133
	Other and unknown .....	230	292	39 543	1 629 703	22 002	43 243	673 167	4 260 727	2 616 372	6 855 061	565 155
<b>335</b>	<b>Electrical equipment, appliance, &amp; component mfg</b> .....	<b>5 839</b>	<b>6 930</b>	<b>593 802</b>	<b>18 972 741</b>	<b>432 273</b>	<b>860 344</b>	<b>11 368 753</b>	<b>57 215 610</b>	<b>54 987 295</b>	<b>112 116 267</b>	<b>3 598 750</b>
	Type of company ownership											
	Single-establishment companies .	4 919	4 919	131 505	3 948 384	89 458	171 814	1 990 411	9 031 083	7 971 097	17 031 760	533 647
	Corporate .....	4 396	4 396	124 699	3 764 607	84 421	162 428	1 884 484	8 594 250	7 503 387	16 124 465	512 077
	Noncorporate .....	523	523	6 806	183 777	5 037	9 386	105 927	436 833	467 710	907 295	21 570
	Multiestablishment companies ...	920	2 011	462 297	15 024 357	342 815	688 530	9 378 342	48 184 527	47 016 198	95 084 507	3 065 103
	Corporate .....	881	1 935	446 855	14 490 113	331 368	665 007	9 054 080	46 562 936	45 461 478	91 889 896	2 980 603
	Noncorporate .....	39	76	15 442	534 244	11 447	23 523	324 262	1 621 591	1 554 720	3 194 611	84 500
	Legal form of organization											
	Corporate .....	5 277	6 331	571 554	18 254 720	415 789	827 435	10 938 564	55 157 186	52 964 865	108 014 361	3 492 680
	Noncorporate .....	562	599	22 248	718 021	16 484	32 909	430 189	2 058 424	2 022 430	4 101 906	106 070
	Individual proprietorships .....	337	342	3 319	85 111	2 497	4 548	50 728	254 610	207 398	464 165	12 631
	Partnerships .....	127	130	7 597	238 090	5 834	11 678	152 984	509 034	702 038	1 213 267	42 842
	Other and unknown .....	98	127	11 332	394 820	8 153	16 683	226 477	1 294 780	1 112 994	2 424 474	50 597
<b>336</b>	<b>Transportation equipment mfg</b> .....	<b>10 979</b>	<b>12 887</b>	<b>1 842 315</b>	<b>79 616 518</b>	<b>1 340 735</b>	<b>2 734 790</b>	<b>51 450 169</b>	<b>227 510 551</b>	<b>348 121 929</b>	<b>575 306 996</b>	<b>19 251 148</b>
	Type of company ownership											
	Single-establishment companies .	9 634	9 634	280 872	8 175 907	216 865	404 910	5 227 135	18 433 883	24 606 915	43 043 622	2 039 820
	Corporate .....	8 035	8 035	257 421	7 537 127	198 554	372 465	4 811 311	16 560 761	22 739 174	39 313 545	1 912 991
	Noncorporate .....	1 599	1 599	23 451	638 780	18 311	32 445	415 824	1 873 122	1 867 741	3 730 077	128 829
	Multiestablishment companies ...	1 345	3 253	1 561 443	71 440 611	1 123 870	2 329 880	46 223 034	209 076 668	323 515 014	532 263 374	17 211 328
	Corporate .....	1 281	3 107	1 501 142	68 707 181	1 082 907	2 246 890	44 663 495	201 298 711	315 418 306	516 255 511	16 682 660
	Noncorporate .....	64	146	60 301	2 733 430	40 963	82 990	1 559 539	7 777 957	8 096 708	16 007 863	528 668
	Legal form of organization											
	Corporate .....	9 316	11 142	1 758 563	76 244 308	1 281 461	2 619 355	49 474 806	217 859 472	338 157 480	555 569 056	18 595 651
	Noncorporate .....	1 663	1 745	83 752	3 372 210	59 274	115 435	1 975 363	9 651 079	9 964 449	19 737 940	655 497
	Individual proprietorships .....	1 061	1 067	9 590	247 454	7 821	12 945	171 962	606 794	820 708	1 430 688	34 724
	Partnerships .....	378	419	20 245	571 763	15 690	29 866	360 638	1 299 243	1 931 539	3 300 403	120 922
	Other and unknown .....	224	259	53 917	2 552 993	35 763	72 624	1 442 763	7 745 042	7 212 202	15 006 849	499 851
<b>337</b>	<b>Furniture &amp; related product mfg</b> .....	<b>19 838</b>	<b>20 738</b>	<b>603 668</b>	<b>14 986 222</b>	<b>484 600</b>	<b>936 574</b>	<b>10 217 032</b>	<b>34 839 134</b>	<b>29 462 249</b>	<b>64 299 098</b>	<b>1 744 608</b>
	Type of company ownership											
	Single-establishment companies .	18 957	18 957	281 460	6 579 432	222 699	405 329	4 343 973	12 837 278	11 047 297	23 861 731	621 017
	Corporate .....	12 668	12 668	246 292	5 906 996	193 769	359 521	3 863 750	11 438 462	9 865 020	21 288 331	547 984
	Noncorporate .....	6 289	6 289	35 168	672 436	28 930	45 808	480 223	1 398 816	1 182 277	2 573 400	73 033
	Multiestablishment companies ...	881	1 781	322 208	8 406 790	261 901	531 245	5 873 059	22 001 856	18 414 952	40 437 367	1 123 591
	Corporate .....	825	1 680	308 811	8 085 140	251 158	509 975	5 651 437	21 060 223	17 593 416	38 670 910	1 071 559
	Noncorporate .....	56	101	13 397	321 650	10 743	21 270	221 622	941 633	821 536	1 766 457	52 032
	Legal form of organization											
	Corporate .....	13 493	14 348	555 103	13 992 136	444 927	869 496	9 515 187	32 498 685	27 458 436	59 959 241	1 619 543
	Noncorporate .....	6 345	6 390	48 565	994 086	39 673	67 078	701 845	2 340 449	2 003 813	4 339 857	125 065
	Individual proprietorships .....	4 862	4 871	21 047	375 878	17 827	27 109	280 327	761 152	627 294	1 384 418	36 551
	Partnerships .....	1 011	1 019	11 934	251 003	9 516	17 276	175 161	695 461	590 828	1 286 408	44 281
	Other and unknown .....	472	500	15 584	367 205	12 330	22 693	246 357	883 836	785 691	1 669 031	44 233

**Table 3-3. Industry Statistics for Subsectors by Type of Company Ownership and Legal Form of Organization: 1997—Con.**

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

NAICS code	Industry, type of company ownership, and legal form of organization	Compan-ies <sup>1</sup>	All estab-lish-ments <sup>2</sup>	All employees		Production workers				Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expendi-tures (\$1,000)
				Number	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)	Value added by manufacture (\$1,000)			
<b>339</b>	<b>Miscellaneous mfg . . . .</b>	<b>30 335</b>	<b>31 476</b>	<b>725 396</b>	<b>21 618 204</b>	<b>492 558</b>	<b>938 191</b>	<b>10 970 663</b>	<b>61 452 548</b>	<b>38 263 345</b>	<b>99 729 798</b>	<b>3 432 599</b>
	Type of company ownership											
	Single-establishment companies .	28 912	28 912	344 796	9 196 216	239 810	428 998	4 814 250	21 141 963	14 755 592	35 828 611	1 070 798
	Corporate . . . . .	20 915	20 915	306 778	8 363 148	211 878	384 949	4 339 812	19 121 796	13 415 807	32 467 569	957 577
	Noncorporate . . . . .	7 997	7 997	38 018	833 068	27 932	44 049	474 438	2 020 167	1 339 785	3 361 042	113 221
	Multiestablishment companies . . .	1 423	2 564	380 600	12 421 988	252 748	509 193	6 156 413	40 310 585	23 507 753	63 901 187	2 361 801
	Corporate . . . . .	1 353	2 449	366 860	11 976 318	243 264	488 011	5 943 270	38 919 388	22 530 208	61 527 644	2 283 095
	Noncorporate . . . . .	70	115	13 740	445 670	9 484	21 182	213 143	1 391 197	977 545	2 373 543	78 706
	Legal form of organization											
	Corporate . . . . .	22 268	23 364	673 638	20 339 466	455 142	872 960	10 283 082	58 041 184	35 946 015	93 995 213	3 240 672
	Noncorporate . . . . .	8 067	8 112	51 758	1 278 738	37 416	65 231	687 581	3 411 364	2 317 330	5 734 585	191 927
	Individual proprietorships . . . . .	6 296	6 300	19 987	372 666	15 105	21 462	221 405	905 048	556 745	1 465 915	40 552
	Partnerships . . . . .	1 220	1 234	17 481	508 916	12 701	25 517	261 751	1 452 775	1 010 385	2 475 403	84 325
	Other and unknown . . . . .	551	578	14 290	397 156	9 610	18 252	204 425	1 053 541	750 200	1 793 267	67 050

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.  
<sup>2</sup>Includes establishments with payroll at any time during the year.

# Appendix A.

## Explanation of Terms

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### **BEGINNING- AND END-OF-YEAR INVENTORIES**

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

### **Inventory Data by Stage of Fabrication**

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

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

### **COST OF MATERIALS**

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

Included in this item are:

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

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

### **COST OF PURCHASED SERVICES**

Annual Survey of Manufactures (ASM) establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, communication services, legal services, accounting and bookkeeping services, advertising, software and other data processing services, and refuse removal. Each of these items reflects the costs paid directly by the establishment and excludes salaries paid to employees of the establishment for these services.

Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment. Payments made to other establishments of the same company and for repair and maintenance of any leased property also are included. Extensive repairs or reconstruction that was capitalized is considered capital expenditures and is, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force also are excluded.

Included in the cost of purchased advertising services are payments for printing, media coverage, and other advertising services and materials.

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Included in the cost of purchased software and other data processing services are all purchases by the establishment from other companies. Excluded are services provided by other establishments of the same company (such as by a separate data processing unit).

Included in the cost of purchased refuse removal services are all costs of refuse removal services paid by the establishment, including costs for hazardous waste removal or treatment. Excluded are all costs included in rental payments or as capital expenditures.

### **Response Coverage Ratio**

A response coverage ratio is a measure of the extent to which respondents report for an item. The estimate is made by calculating the ratio value of the weighted total employment data for all the ASM establishments that report the item to the weighted total employment data for all ASM establishments classified in an industry (reporters and non-reporters).

### **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.



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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.

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## 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.

Industry primary product value of shipments represents one of the three components of value of shipments. These components are:

1. Primary products value of shipments.
2. Secondary product value of shipments.
3. Total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio. The term “Value of primary products shipments made in this industry” is used in this publication and refers to the same data.

## 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

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duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

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

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

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

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

# Appendix B.

## NAICS Codes, Titles, and Descriptions

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### **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**

#### **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.

#### **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.

### **3112 Grain and Oilseed Milling**

#### **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.

#### **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.

#### **311213 Malt Manufacturing**

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

#### **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).

#### **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.

#### **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.

#### **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.

#### **311230 Breakfast Cereal Manufacturing**

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

### **3113 Sugar and Confectionery Product Manufacturing**

#### **311311 Sugarcane Mills**

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

#### **311312 Cane Sugar Refining**

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

#### **311313 Beet Sugar Manufacturing**

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

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### **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.

### **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.

### **311340 Nonchocolate Confectionery Manufacturing**

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

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **311512 Creamery Butter Manufacturing**

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

### **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.

### **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.

### **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).

### **3116 Meat Product Manufacturing**

#### **311611 Animal (Except Poultry) Slaughtering**

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

#### **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.

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### **311613 Rendering and Meat Byproduct Processing**

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

### **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.

### **3117 Seafood Product Preparation and Packaging**

#### **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.

#### **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.

### **3118 Bakeries and Tortilla Manufacturing**

#### **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.

#### **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.

#### **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.

#### **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.

### **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.

### **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.

### **311830 Tortilla Manufacturing**

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

### **3119 Other Food Manufacturing**

#### **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.

#### **311919 Other Snack Food Manufacturing**

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

#### **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.

#### **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.

#### **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).

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### **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.

### **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.

### **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.

### **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**

#### **312111 Soft Drink Manufacturing**

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

#### **312112 Bottled Water Manufacturing**

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

#### **312113 Ice Manufacturing**

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

#### **312120 Breweries**

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

#### **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.

#### **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.

### **3122 Tobacco Manufacturing**

#### **312210 Tobacco Stemming and Redrying**

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

#### **312221 Cigarette Manufacturing**

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

#### **312229 Other Tobacco Product Manufacturing**

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

### **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

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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.

#### **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.

#### **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.

#### **313113 Thread Mills**

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

### **3132 Fabric Mills**

#### **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.

#### **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

#### **313222 Schiffli Machine Embroidery**

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

#### **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.

#### **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).

#### **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).

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

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

#### **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



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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.

### **313320 Fabric Coating Mills**

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

### **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**

##### **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.

##### **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.

##### **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.

#### **3149 Other Textile Product Mills**

##### **314911 TEXTILE BAG MILLS**

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

#### **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.

#### **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).

#### **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.

#### **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.

### **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**

##### **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).

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### **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).

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

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### **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 sweatpants 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.

### **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 slippers.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

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### **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.

### **3159 Apparel Accessories and Other Apparel Manufacturing**

#### **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.

#### **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.

#### **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.

#### **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.

### **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**

##### **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.

#### **3162 Footwear Manufacturing**

##### **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.

##### **316212 House Slipper Manufacturing**

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

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### **316213 Men's Footwear (Except Athletic) Manufacturing**

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

### **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.

### **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)).

### **3169 Other Leather and Allied Product Manufacturing**

#### **316991 Luggage Manufacturing**

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

#### **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).

#### **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).

#### **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).

### **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**

#### **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.

#### **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.

### **3212 Veneer, Plywood, and Engineered Wood Product Manufacturing**

#### **321211 Hardwood Veneer and Plywood Manufacturing**

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

#### **321212 Softwood Veneer and Plywood Manufacturing**

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

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### **321214 Truss Manufacturing**

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

### **321219 Reconstituted Wood Product Manufacturing**

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

### **3219 Other Wood Product Manufacturing**

#### **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.

#### **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 wood-working machinery, such as jointers, planers, lathes, and routers to shape wood.

#### **321918 Other Millwork (Including Flooring)**

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

#### **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.

#### **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.

#### **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.

### **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).

### **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

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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**

### **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.

### **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.

### **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.

### **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.

## **3222 Converted Paper Product Manufacturing**

### **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.

### **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.

### **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.

### **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.

### **322215 Nonfolding Sanitary Food Container Manufacturing**

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

### **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.

### **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.

### **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.

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### **322224 Uncoated Paper and Multiwall Bag Manufacturing**

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

### **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.

### **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.

### **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.

### **322232 Envelope Manufacturing**

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

### **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).

### **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.

### **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.

## **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**

### **323110 Commercial Lithographic Printing**

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



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### **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.

### **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.

### **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.

### **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, coloring, 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.

### **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.

### **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.

### **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.

### **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.

### **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).

### **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.

### **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.

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## **3241 Petroleum and Coal Products Manufacturing**

### **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.

### **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.

### **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.

### **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.

### **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.

## **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**

### **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 hydrocarbons and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

### **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.

### **325131 Inorganic Dye and Pigment Manufacturing**

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

### **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).

### **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.

### **325182 Carbon Black Manufacturing**

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

### **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).

### **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.

### **325193 Ethyl Alcohol Manufacturing**

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

### **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).

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

#### **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.

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

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

#### **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 texturizing cellulosic fibers and filaments.

#### **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 texturizing noncellulosic fibers and filaments.

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

#### **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.

#### **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.

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

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

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

#### **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.

#### **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.

#### **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.

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### **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).

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

#### **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.

#### **325520 Adhesive Manufacturing**

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

### **3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing**

#### **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.

#### **325612 Polish and Other Sanitation Good Manufacturing**

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

#### **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.

#### **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.

### **3259 Other Chemical Product Manufacturing**

#### **325910 Printing Ink Manufacturing**

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

#### **325920 Explosives Manufacturing**

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

#### **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.

#### **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).

### **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

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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**

#### **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.

#### **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.

#### **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).

#### **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.

#### **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.

#### **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.

#### **326140 Polystyrene Foam Product Manufacturing**

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

#### **326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing**

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

#### **326160 Plastics Bottle Manufacturing**

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

#### **326192 Resilient Floor Covering Manufacturing**

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

#### **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).

### **3262 Rubber Product Manufacturing**

#### **326211 Tire Manufacturing (Except Retreading)**

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

#### **326212 Tire Retreading**

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

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### **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.

### **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.

### **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.

### **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 beneficiate 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**

#### **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.

#### **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.

#### **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.

#### **327121 Brick and Structural Clay Tile Manufacturing**

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

3251 Brick and structural clay tile

#### **327122 Ceramic Wall and Floor Tile Manufacturing**

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

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### **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.

### **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.

### **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.

### **3272 Glass and Glass Product Manufacturing**

#### **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.

#### **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).

#### **327213 Glass Container Manufacturing**

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

### **3273 Cement and Concrete Product Manufacturing**

#### **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.

### **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.

### **327331 Concrete Block and Brick Manufacturing**

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

### **327332 Concrete Pipe Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

### **327390 Other Concrete Product Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

### **3274 Lime and Gypsum Product Manufacturing**

#### **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.

#### **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.

### **3279 Other Nonmetallic Mineral Product Manufacturing**

#### **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.

#### **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.

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### **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.

### **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.

### **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).

## **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**

### **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.

### **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.

## **3312 Steel Product Manufacturing From Purchased 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.

### **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.

### **331222 Steel Wire Drawing**

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

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

### **331311 Alumina Refining**

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



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### **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.

### **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.

### **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.

### **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.

### **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.

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

#### **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.

#### **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.

#### **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)).

#### **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.

#### **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.

#### **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.

#### **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.

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## **3315 Foundries**

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

## **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**

#### **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.

### **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.

### **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.

### **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.

### **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.

### **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.

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

#### **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:

#### **332212 Hand and Edge Tool Manufacturing**

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

### **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).

### **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).

### **3323 Architectural and Structural Metals Manufacturing**

#### **332311 Prefabricated Metal Building and Component Manufacturing**

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

#### **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.

#### **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.

#### **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.

#### **332322 Sheet Metal Work Manufacturing**

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

#### **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.

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## **3324 Boiler, Tank, and Shipping Container Manufacturing**

### **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.

### **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.

### **332431 Metal Can Manufacturing**

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

### **332439 Other Metal Container Manufacturing**

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

## **3325 Hardware Manufacturing**

### **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).

## **3326 Spring and Wire Product Manufacturing**

### **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.

### **332612 Spring (Light Gauge) Manufacturing**

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

### **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.

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

### **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.

### **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.

### **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.

## **3328 Coating, Engraving, Heat Treating, and Allied Activities**

### **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.

### **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.

### **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.

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## **3329 Other Fabricated Metal Product Manufacturing**

### **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.

### **332912 Fluid Power Valve and Hose Fitting Manufacturing**

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

### **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.

### **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).

### **332991 Ball and Roller Bearing Manufacturing**

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

### **332992 Small Arms Ammunition Manufacturing**

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

### **332994 Small Arms Manufacturing**

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

### **332995 Other Ordnance and Accessories Manufacturing**

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

## **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.

### **332997 Industrial Pattern Manufacturing**

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

### **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).

## **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

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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**

#### **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).

#### **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.

#### **333120 Construction Machinery Manufacturing**

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

#### **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.

### **3332 Industrial Machinery Manufacturing**

#### **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.

#### **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.

#### **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.

#### **333292 Textile Machinery Manufacturing**

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

#### **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.

#### **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).

#### **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.

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### **333298 All Other Industrial Machinery Manufacturing**

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

### **3333 Commercial and Service Industry Machinery Manufacturing**

#### **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.

#### **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.

#### **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.

#### **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).

#### **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).

### **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).

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

#### **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.

#### **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.

#### **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.

#### **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.

### **3335 Metalworking Machinery Manufacturing**

#### **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.

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**333512 Machine Tool (Metal Cutting Types) Manufacturing**

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

**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.

**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.

**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.

**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.

**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).

**3336 Engine, Turbine, and Power Transmission Equipment Manufacturing****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.

**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).

**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.

**333618 Other Engine Equipment Manufacturing**

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

**3339 Other General-Purpose Machinery Manufacturing****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.

**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.

**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.

**333921 Elevator and Moving Stairway Manufacturing**

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



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### **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.

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

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

### **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.

### **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).

### **333993 Packaging Machinery Manufacturing**

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

### **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.

### **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.

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

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

### **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.

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

### **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.

### **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.

### **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.

### **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).

## **3342 Communications Equipment Manufacturing**

### **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.

### **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.

### **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).

## **3343 Audio and Video Equipment Manufacturing**

### **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.

### **3344 Semiconductor and Other Electronic Component Manufacturing**

#### **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.

#### **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.

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### **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.

### **334414 Electronic Capacitor Manufacturing**

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

### **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.

### **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.

### **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.

### **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.

### **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).

### **3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing**

#### **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.

#### **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.

#### **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.

#### **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.

#### **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.

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### **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.

### **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.

### **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.

### **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.

### **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).

### **3346 Manufacturing and Reproducing Magnetic and Optical 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.

#### **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.

#### **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.

### **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**

##### **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).

##### **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.

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### **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.

### **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.

### **3352 Household Appliance Manufacturing**

#### **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).

#### **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.

#### **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).

#### **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.

#### **335224 Household Laundry Equipment Manufacturing**

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

### **3353 Electrical Equipment Manufacturing**

#### **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.

#### **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.

#### **335313 Switchgear and Switchboard Apparatus Manufacturing**

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

#### **3359 Other Electrical Equipment and Component Manufacturing**

##### **335911 Storage Battery Manufacturing**

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

##### **335912 Primary Battery Manufacturing**

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

##### **335921 Fiber Optic Cable Manufacturing**

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

##### **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.

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### **335931 Current-Carrying Wiring Device Manufacturing**

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

### **335932 Noncurrent-Carrying Wiring Device Manufacturing**

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

### **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.

## **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**

### **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.

### **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.

### **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.

### **3362 Motor Vehicle Body and Trailer Manufacturing**

#### **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.

#### **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.

#### **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.

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### **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.

### **3363 Motor Vehicle Parts Manufacturing**

#### **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.

#### **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.

#### **336321 Vehicular Lighting Equipment Manufacturing**

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

#### **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.

#### **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).

#### **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.

### **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.

#### **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.

#### **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.

#### **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.

#### **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).

### **3364 Aerospace Product and Parts Manufacturing**

#### **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).

#### **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;

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(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).

### **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.

### **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.

### **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.

### **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.

### **3365 Railroad Rolling Stock Manufacturing**

#### **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.

### **3366 Ship and Boat Building**

#### **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.

#### **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.

### **3369 Other Transportation Equipment Manufacturing**

#### **336991 Motorcycle, Bicycle, and Parts Manufacturing**

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

#### **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.

#### **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).

### **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



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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., knockdown). 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**

### **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.

### **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.

### **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).

### **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).

### **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).

### **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).

### **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.

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## **3372 Office Furniture (Including Fixtures) Manufacturing**

### **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).

### **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.

### **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).

### **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.

## **3379 Other Furniture Related Product Manufacturing**

### **337910 Mattress Manufacturing**

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

### **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.

## **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**

### **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.

### **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.

### **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

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are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

### **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.

### **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.

### **339116 Dental Laboratories**

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

### **3399 Other Miscellaneous Manufacturing**

#### **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.

#### **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.

#### **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.

#### **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.

#### **339920 Sporting and Athletic Goods Manufacturing**

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

#### **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.

#### **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).

#### **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.

#### **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.

#### **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.

#### **339944 Carbon Paper and Inked Ribbon Manufacturing**

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

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### **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).

### **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.

### **339992 Musical Instrument Manufacturing**

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

### **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).

### **339994 Broom, Brush, and Mop Manufacturing**

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

### **339995 Burial Casket Manufacturing**

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

### **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).

# Appendix C.

## Coverage and Methodology

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### MAIL/NONMAIL UNIVERSE

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

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

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

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

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

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

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

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

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

2. Establishments sent a report form.

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

- a. ASM sample establishments.

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

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

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

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

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

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

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

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

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

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

## **INDUSTRY CLASSIFICATION OF ESTABLISHMENTS**

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

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

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

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

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

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

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

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

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

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

## **ESTABLISHMENT BASIS OF REPORTING**

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

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

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

## **DESCRIPTION OF THE ASM SURVEY SAMPLE**

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

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

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

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

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

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

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

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

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

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

## **DESCRIPTION OF THE ASM ESTIMATING PROCEDURE**

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

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference



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estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

### **QUALIFICATIONS OF THE ASM DATA**

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

### **DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)**

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

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census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

#### **DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS**

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

#### **VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS**

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

## Appendix D. Geographic Notes

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Not applicable for this report.

# Appendix E. Metropolitan Areas

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## **Abilene, TX MSA**

Taylor County, TX

## **Akron, OH PMSA**

Portage County, OH

Summit County, OH

## **Albany, GA MSA**

Dougherty County, GA

Lee County, GA

## **Albany–Schenectady–Troy, NY MSA**

Albany County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

Schoharie County, NY

## **Albuquerque, NM MSA**

Bernalillo County, NM

Sandoval County, NM

Valencia County, NM

## **Alexandria, LA MSA**

Rapides Parish, LA

## **Allentown–Bethlehem–Easton, PA MSA**

Carbon County, PA

Lehigh County, PA

Northampton County, PA

## **Altoona, PA MSA**

Blair County, PA

## **Amarillo, TX MSA**

Potter County, TX

Randall County, TX

## **Anchorage, AK MSA**

Anchorage Borough, AK

## **Ann Arbor, MI PMSA**

Lenawee County, MI

Livingston County, MI

Washtenaw County, MI

## **Anniston, AL MSA**

Calhoun County, AL

## **Appleton–Oshkosh–Neenah, WI MSA**

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

## **Asheville, NC MSA**

Buncombe County, NC

Madison County, NC

## **Athens, GA MSA**

Clarke County, GA

Madison County, GA

Oconee County, GA

## **Atlanta, GA MSA**

Barrow County, GA

Bartow County, GA

Carroll County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

DeKalb County, GA

Douglas County, GA

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

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**Atlanta, GA MSA—Con.**

Newton County, GA  
Paulding County, GA  
Pickens County, GA  
Rockdale County, GA  
Spalding County, GA  
Walton County, GA

**Atlantic–Cape May, NJ PMSA**

Atlantic County, NJ  
Cape May County, NJ

**Augusta–Aiken, GA–SC MSA**

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

**Austin–San Marcos, TX MSA**

Bastrop County, TX  
Caldwell County, TX  
Hays County, TX  
Travis County, TX  
Williamson County, TX

**Bakersfield, CA MSA**

Kern County, CA

**Baltimore, MD PMSA**

Anne Arundel County, MD  
Baltimore County, MD  
Carroll County, MD  
Harford County, MD  
Howard County, MD  
Queen Anne's County, MD  
Baltimore, MD (IC)

**Bangor, ME MSA**

Penobscot County, ME (Part)  
Bangor city, ME  
Brewer city, ME  
Old Town city, ME  
Orono town, ME  
Waldo County, ME (Part)

**Barnstable–Yarmouth, MA MSA**

Barnstable County, MA  
Barnstable city, MA  
Dennis town, MA  
Harwich town, MA  
Sandwich town, MA  
Yarmouth town, MA

**Baton Rouge, LA MSA**

Ascension Parish, LA  
East Baton Rouge Parish, LA  
Livingston Parish, LA  
West Baton Rouge Parish, LA

**Beaumont–Port Arthur, TX MSA**

Hardin County, TX  
Jefferson County, TX  
Orange County, TX

**Bellingham, WA MSA**

Whatcom County, WA

**Benton Harbor, MI MSA**

Berrien County, MI

**Bergen–Passaic, NJ PMSA**

Bergen County, NJ  
Passaic County, NJ

**Billings, MT MSA**

Yellowstone County, MT

**Biloxi–Gulfport–Pascagoula, MS MSA**

Hancock County, MS  
Harrison County, MS  
Jackson County, MS

**Binghamton, NY MSA**

Broome County, NY  
Tioga County, NY

**Birmingham, AL MSA**

Blount County, AL  
Jefferson County, AL  
St. Clair County, AL  
Shelby County, AL

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**Bismarck, ND MSA**

Burleigh County, ND  
Morton County, ND

**Bloomington, IN MSA**

Monroe County, IN

**Bloomington–Normal, IL MSA**

McLean County, IL

**Boise City, ID MSA**

Ada County, ID  
Canyon County, ID

**Boston, MA–NH PMSA**

Bristol County, MA (Part)  
Mansfield town, MA  
Norton town, MA  
Taunton city, MA  
Essex County, MA (Part)  
Amesbury town, MA  
Beverly city, MA  
Danvers town, MA  
Gloucester city, MA  
Ipswich town, MA  
Lynn city, MA  
Lynnfield town, MA  
Marblehead town, MA  
Newburyport city, MA  
Peabody city, MA  
Salem city, MA  
Saugus town, MA  
Swampscott town, MA  
Middlesex County, MA (Part)  
Acton town, MA  
Arlington town, MA  
Ashland town, MA  
Bedford town, MA  
Belmont town, MA  
Burlington town, MA  
Cambridge city, MA  
Concord town, MA

**Boston, MA–NH PMSA—Con.**

Middlesex County, MA (Part)—Con.  
Everett city, MA  
Framingham town, MA  
Holliston town, MA  
Hopkinton town, MA  
Hudson town, MA  
Lexington town, MA  
Malden city, MA  
Marlborough city, MA  
Maynard town, MA  
Medford city, MA  
Melrose city, MA  
Natick town, MA  
Newton city, MA  
North Reading town, MA  
Reading town, MA  
Somerville city, MA  
Stoneham town, MA  
Sudbury town, MA  
Wakefield town, MA  
Waltham city, MA  
Watertown city, MA  
Wayland town, MA  
Weston town, MA  
Wilmington town, MA  
Winchester town, MA  
Woburn city, MA  
Norfolk County, MA (Part)  
Bellingham town, MA  
Braintree town, MA  
Brookline town, MA  
Canton town, MA  
Dedham town, MA  
Foxborough town, MA  
Franklin city, MA  
Holbrook town, MA  
Medfield town, MA

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**Boston, MA–NH PMSA—Con.**

Norfolk County, MA (Part)—Con.

Medway town, MA  
Milton town, MA  
Needham town, MA  
Norfolk town, MA  
Norwood town, MA  
Quincy city, MA  
Randolph town, MA  
Sharon town, MA  
Stoughton town, MA  
Walpole town, MA  
Wellesley town, MA  
Westwood town, MA  
Weymouth town, MA  
Wrentham town, MA

Plymouth County, MA (Part)

Carver town, MA  
Duxbury town, MA  
Hanover town, MA  
Hingham town, MA  
Hull town, MA  
Kingston town, MA  
Marshfield town, MA  
Pembroke town, MA  
Plymouth town, MA  
Rockland town, MA  
Scituate town, MA  
Wareham town, MA

Suffolk County, MA

Boston city, MA  
Chelsea city, MA  
Revere city, MA  
Winthrop town, MA

**Boston, MA–NH PMSA—Con.**

Worcester County, MA (Part)

Harvard town, MA  
Milford town, MA

Rockingham County, NH (Part)

**Boston–Worcester–Lawrence, MA–NH–ME–CT CMSA**

Boston, MA–NH PMSA

Bristol County, MA (Part)  
Mansfield town, MA  
Norton town, MA  
Taunton city, MA

Essex County, MA (Part)

Amesbury town, MA  
Beverly city, MA  
Danvers town, MA  
Gloucester city, MA  
Ipswich town, MA  
Lynn city, MA

Lynnfield town, MA

Marblehead town, MA  
Newburyport city, MA  
Peabody city, MA  
Salem city, MA  
Saugus town, MA  
Swampscott town, MA

Middlesex County, MA (Part)

Acton town, MA  
Arlington town, MA  
Ashland town, MA  
Bedford town, MA  
Belmont town, MA  
Burlington town, MA  
Cambridge city, MA  
Concord town, MA  
Everett city, MA  
Framingham town, MA  
Holliston town, MA  
Hopkinton town, MA

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**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Boston, MA–NH PMSA—Con.

Middlesex County, MA (Part)—Con.

Hudson town, MA  
Lexington town, MA  
Malden city, MA  
Marlborough city, MA  
Maynard town, MA  
Medford city, MA  
Melrose city, MA  
Natick town, MA  
Newton city, MA  
North Reading town, MA  
Reading town, MA  
Somerville city, MA  
Stoneham town, MA  
Sudbury town, MA  
Wakefield town, MA  
Waltham city, MA  
Watertown city, MA  
Wayland town, MA  
Weston town, MA  
Wilmington town, MA  
Winchester town, MA  
Woburn city, MA

Norfolk County, MA (Part)

Bellingham town, MA  
Braintree town, MA  
Brookline town, MA  
Canton town, MA  
Dedham town, MA  
Foxborough town, MA  
Franklin city, MA  
Holbrook town, MA  
Medfield town, MA  
Medway town, MA  
Milton town, MA

**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Boston, MA–NH PMSA—Con.

Norfolk County, MA (Part)—Con.

Needham town, MA  
Norfolk town, MA  
Norwood town, MA  
Quincy city, MA  
Randolph town, MA  
Sharon town, MA  
Stoughton town, MA  
Walpole town, MA  
Wellesley town, MA  
Westwood town, MA  
Weymouth town, MA  
Wrentham town, MA

Plymouth County, MA (Part)

Carver town, MA  
Duxbury town, MA  
Hanover town, MA  
Hingham town, MA  
Hull town, MA  
Kingston town, MA  
Marshfield town, MA  
Pembroke town, MA  
Plymouth town, MA  
Rockland town, MA  
Scituate town, MA  
Wareham town, MA

Suffolk County, MA

Boston city, MA  
Chelsea city, MA  
Revere city, MA  
Winthrop town, MA

Worcester County, MA (Part)

Harvard town, MA  
Milford town, MA

Rockingham County, NH (Part)



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**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Brockton, MA PMSA  
Bristol County, MA (Part)  
Easton town, MA  
Raynham town, MA  
Norfolk County, MA (Part)  
Plymouth County, MA (Part)  
Abington town, MA  
Bridgewater town, MA  
Brockton city, MA  
East Bridgewater town, MA  
Middleborough town, MA  
Whitman town, MA  
Fitchburg–Leominster, MA PMSA  
Middlesex County, MA (Part)  
Worcester County, MA (Part)  
Fitchburg city, MA  
Gardner city, MA  
Leominster city, MA  
Lawrence, MA–NH PMSA  
Essex County, MA (Part)  
Andover town, MA  
Haverhill city, MA  
Lawrence city, MA  
Methuen city, MA  
North Andover town, MA  
Rockingham County, NH (Part)  
Derry town, NH  
Salem town, NH  
Lowell, MA–NH PMSA  
Middlesex County, MA (Part)  
Billerica town, MA  
Chelmsford town, MA  
Dracut town, MA  
Lowell city, MA  
Pepperell town, MA  
Tewksbury town, MA  
Westford town, MA

**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Lowell, MA–NH PMSA—Con.  
Hillsborough County, NH (Part)  
Pelham town, NH  
Manchester, NH PMSA  
Hillsborough County, NH (Part)  
Bedford town, NH  
Goffstown town, NH  
Manchester city, NH  
Merrimack County, NH (Part)  
Rockingham County, NH (Part)  
Londonderry town, NH  
Nashua, NH PMSA  
Hillsborough County, NH (Part)  
Hudson town, NH  
Merrimack town, NH  
Milford town, NH  
Nashua city, NH  
New Bedford, MA PMSA  
Bristol County, MA (Part)  
Dartmouth town, MA  
Fairhaven town, MA  
New Bedford city, MA  
Plymouth County, MA (Part)  
Portsmouth–Rochester, NH–ME PMSA  
York County, ME (Part)  
York town, ME  
Rockingham County, NH (Part)  
Exeter town, NH  
Hampton town, NH  
Portsmouth city, NH  
Strafford County, NH (Part)  
Dover city, NH  
Durham town, NH  
Rochester city, NH  
Somersworth city, NH

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**Boston–Worcester–Lawrence, MA–NH–ME–CT  
CMSA—Con.**

Worcester, MA–CT PMSA  
Windham County, CT (Part)  
Hampden County, MA (Part)  
Worcester County, MA (Part)  
Auburn town, MA  
Charlton town, MA  
Clinton town, MA  
Grafton town, MA  
Holden town, MA  
Leicester town, MA  
Millbury town, MA  
Northborough town, MA  
Northbridge town, MA  
Oxford town, MA  
Shrewsbury town, MA  
Southbridge town, MA  
Spencer town, MA  
Uxbridge town, MA  
Webster town, MA  
Westborough town, MA  
Worcester city, MA

**Boulder–Longmont, CO PMSA**

Boulder County, CO

**Brazoria, TX PMSA**

Brazoria County, TX

**Bremerton, WA PMSA**

Kitsap County, WA

**Bridgeport, CT PMSA**

Fairfield County, CT (Part)  
Bridgeport city, CT  
Fairfield town, CT  
Monroe town, CT  
Shelton city, CT  
Stratford town, CT  
Trumbull town, CT

**Bridgeport, CT PMSA—Con.**

New Haven County, CT (Part)  
Ansonia city, CT  
Derby city, CT  
Milford city, CT  
Seymour town, CT

**Brockton, MA PMSA**

Bristol County, MA (Part)  
Easton town, MA  
Raynham town, MA  
Norfolk County, MA (Part)  
Plymouth County, MA (Part)  
Abington town, MA  
Bridgewater town, MA  
Brockton city, MA  
East Bridgewater town, MA  
Middleborough town, MA  
Whitman town, MA

**Brownsville–Harlingen–San Benito, TX MSA**

Cameron County, TX

**Bryan–College Station, TX MSA**

Brazos County, TX

**Buffalo–Niagara Falls, NY MSA**

Erie County, NY  
Niagara County, NY

**Burlington, VT MSA**

Chittenden County, VT (Part)  
Burlington city, VT  
Colchester town, VT  
Essex Junction village, VT  
South Burlington city, VT  
Winooski city, VT  
Franklin County, VT (Part)  
St. Albans city, VT  
Swanton village, VT  
Grand Isle County, VT (Part)

**Canton–Massillon, OH MSA**

Carroll County, OH  
Stark County, OH

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**Casper, WY MSA**

Natrona County, WY

**Cedar Rapids, IA MSA**

Linn County, IA

**Champaign–Urbana, IL MSA**

Champaign County, IL

**Charleston–North Charleston, SC MSA**

Berkeley County, SC

Charleston County, SC

Dorchester County, SC

**Charleston, WV MSA**

Kanawha County, WV

Putnam County, WV

**Charlotte–Gastonia–Rock Hill, NC–SC MSA**

Cabarrus County, NC

Gaston County, NC

Lincoln County, NC

Mecklenburg County, NC

Rowan County, NC

Union County, NC

York County, SC

**Charlottesville, VA MSA**

Albemarle County, VA

Fluvanna County, VA

Greene County, VA

Charlottesville, VA (IC)

**Chattanooga, TN–GA MSA**

Catoosa County, GA

Dade County, GA

Walker County, GA

Hamilton County, TN

Marion County, TN

**Cheyenne, WY MSA**

Laramie County, WY

**Chicago, IL PMSA**

Cook County, IL

DeKalb County, IL

DuPage County, IL

**Chicago, IL PMSA—Con.**

Grundy County, IL

Kane County, IL

Kendall County, IL

Lake County, IL

McHenry County, IL

Will County, IL

**Chicago–Gary–Kenosha, IL–IN–WI CMSA**

Chicago, IL PMSA

Cook County, IL

DeKalb County, IL

DuPage County, IL

Grundy County, IL

Kane County, IL

Kendall County, IL

Lake County, IL

McHenry County, IL

Will County, IL

Gary, IN PMSA

Lake County, IN

Porter County, IN

Kankakee, IL PMSA

Kankakee County, IL

Kenosha, WI PMSA

Kenosha County, WI

**Chico–Paradise, CA MSA**

Butte County, CA

**Cincinnati, OH–KY–IN PMSA**

Dearborn County, IN

Ohio County, IN

Boone County, KY

Campbell County, KY

Gallatin County, KY

Grant County, KY

Kenton County, KY

Pendleton County, KY

Brown County, OH

Clermont County, OH

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**Cincinnati, OH-KY-IN PMSA—Con.**

Hamilton County, OH  
Warren County, OH

**Cincinnati–Hamilton, OH-KY-IN CMSA**

Cincinnati, OH-KY-IN PMSA

Dearborn County, IN  
Ohio County, IN  
Boone County, KY  
Campbell County, KY  
Gallatin County, KY  
Grant County, KY  
Kenton County, KY  
Pendleton County, KY  
Brown County, OH  
Clermont County, OH  
Hamilton County, OH  
Warren County, OH

Hamilton–Middletown, OH PMSA

Butler County, OH

**Clarksville–Hopkinsville, TN-KY MSA**

Christian County, KY  
Montgomery County, TN

**Cleveland–Lorain–Elyria, OH PMSA**

Ashtabula County, OH  
Cuyahoga County, OH  
Geauga County, OH  
Lake County, OH  
Lorain County, OH  
Medina County, OH

**Cleveland–Akron, OH CMSA**

Akron, OH PMSA  
Portage County, OH  
Summit County, OH  
Cleveland–Lorain–Elyria, OH PMSA  
Ashtabula County, OH  
Cuyahoga County, OH  
Geauga County, OH  
Lake County, OH

**Cleveland–Akron, OH CMSA—Con.**

Cleveland–Lorain–Elyria, OH PMSA—Con.  
Lorain County, OH  
Medina County, OH

**Colorado Springs, CO MSA**

El Paso County, CO

**Columbia, MO MSA**

Boone County, MO

**Columbia, SC MSA**

Lexington County, SC  
Richland County, SC

**Columbus, GA–AL MSA**

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

**Columbus, OH MSA**

Delaware County, OH  
Fairfield County, OH  
Franklin County, OH  
Licking County, OH  
Madison County, OH  
Pickaway County, OH

**Corpus Christi, TX MSA**

Nueces County, TX  
San Patricio County, TX

**Cumberland, MD–WV MSA**

Allegany County, MD  
Mineral County, WV

**Dallas, TX PMSA**

Collin County, TX  
Dallas County, TX  
Denton County, TX  
Ellis County, TX  
Henderson County, TX  
Hunt County, TX  
Kaufman County, TX  
Rockwall County, TX

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**Dallas–Fort Worth, TX CMSA**

Dallas, TX PMSA

Collin County, TX

Dallas County, TX

Denton County, TX

Ellis County, TX

Henderson County, TX

Hunt County, TX

Kaufman County, TX

Rockwall County, TX

Fort Worth–Arlington, TX PMSA

Hood County, TX

Johnson County, TX

Parker County, TX

Tarrant County, TX

**Danbury, CT PMSA**

Fairfield County, CT (Part)

Bethel town, CT

Brookfield town, CT

Danbury city, CT

New Fairfield town, CT

Newtown town, CT

Ridgefield town, CT

Litchfield County, CT (Part)

New Milford town, CT

**Danville, VA MSA**

Pittsylvania County, VA

Danville, VA (IC)

**Davenport–Moline–Rock Island, IA–IL MSA**

Henry County, IL

Rock Island County, IL

Scott County, IA

**Dayton–Springfield, OH MSA**

Clark County, OH

Greene County, OH

Miami County, OH

Montgomery County, OH

**Daytona Beach, FL MSA**

Flagler County, FL

Volusia County, FL

**Decatur, AL MSA**

Lawrence County, AL

Morgan County, AL

**Decatur, IL MSA**

Macon County, IL

**Denver, CO PMSA**

Adams County, CO

Arapahoe County, CO

Denver County, CO

Douglas County, CO

Jefferson County, CO

**Denver–Boulder–Greeley, CO CMSA**

Boulder–Longmont, CO PMSA

Boulder County, CO

Denver, CO PMSA

Adams County, CO

Arapahoe County, CO

Denver County, CO

Douglas County, CO

Jefferson County, CO

Greeley, CO PMSA

Weld County, CO

**Des Moines, IA MSA**

Dallas County, IA

Polk County, IA

Warren County, IA

**Detroit, MI PMSA**

Lapeer County, MI

Macomb County, MI

Monroe County, MI

Oakland County, MI

St. Clair County, MI

Wayne County, MI

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**Detroit–Ann Arbor–Flint, MI CMSA**

Ann Arbor, MI PMSA  
Lenawee County, MI  
Livingston County, MI  
Washtenaw County, MI  
Detroit, MI PMSA  
Lapeer County, MI  
Macomb County, MI  
Monroe County, MI  
Oakland County, MI  
St. Clair County, MI  
Wayne County, MI  
Flint, MI PMSA  
Genesee County, MI

**Dothan, AL MSA**

Dale County, AL  
Houston County, AL

**Dover, DE MSA**

Kent County, DE

**Dubuque, IA MSA**

Dubuque County, IA

**Duluth–Superior, MN–WI MSA**

St. Louis County, MN  
Douglas County, WI

**Dutchess County, NY PMSA**

Dutchess County, NY

**Eau Claire, WI MSA**

Chippewa County, WI  
Eau Claire County, WI

**El Paso, TX MSA**

El Paso County, TX

**Elkhart–Goshen, IN MSA**

Elkhart County, IN

**Elmira, NY MSA**

Chemung County, NY

**Enid, OK MSA**

Garfield County, OK

**Erie, PA MSA**

Erie County, PA

**Eugene–Springfield, OR MSA**

Lane County, OR

**Evansville–Henderson, IN–KY MSA**

Posey County, IN  
Vanderburgh County, IN  
Warrick County, IN  
Henderson County, KY

**Fargo–Moorhead, ND–MN MSA**

Clay County, MN  
Cass County, ND

**Fayetteville, NC MSA**

Cumberland County, NC

**Fayetteville–Springdale–Rogers, AR MSA**

Benton County, AR  
Washington County, AR

**Fitchburg–Leominster, MA PMSA**

Middlesex County, MA (Part)  
Worcester County, MA (Part)  
Fitchburg city, MA  
Gardner city, MA  
Leominster city, MA

**Flagstaff, AZ–UT MSA**

Coconino County, AZ  
Kane County, UT

**Flint, MI PMSA**

Genesee County, MI

**Florence, AL MSA**

Colbert County, AL  
Lauderdale County, AL

**Florence, SC MSA**

Florence County, SC

**Fort Collins–Loveland, CO MSA**

Larimer County, CO

**Fort Lauderdale, FL PMSA**

Broward County, FL

**Fort Myers–Cape Coral, FL MSA**

Lee County, FL

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**Fort Pierce–Port St. Lucie, FL MSA**

Martin County, FL  
St. Lucie County, FL

**Fort Smith, AR–OK MSA**

Crawford County, AR  
Sebastian County, AR  
Sequoyah County, OK

**Fort Walton Beach, FL MSA**

Okaloosa County, FL

**Fort Wayne, IN MSA**

Adams County, IN  
Allen County, IN  
De Kalb County, IN  
Huntington County, IN  
Wells County, IN  
Whitley County, IN

**Fort Worth–Arlington, TX PMSA**

Hood County, TX  
Johnson County, TX  
Parker County, TX  
Tarrant County, TX

**Fresno, CA MSA**

Fresno County, CA  
Madera County, CA

**Gadsden, AL MSA**

Etowah County, AL

**Gainesville, FL MSA**

Alachua County, FL

**Galveston–Texas City, TX PMSA**

Galveston County, TX

**Gary, IN PMSA**

Lake County, IN  
Porter County, IN

**Glens Falls, NY MSA**

Warren County, NY  
Washington County, NY

**Goldsboro, NC MSA**

Wayne County, NC

**Grand Forks, ND–MN MSA**

Polk County, MN  
Grand Forks County, ND

**Grand Junction, CO MSA**

Mesa County, CO

**Grand Rapids–Muskegon–Holland, MI MSA**

Allegan County, MI  
Kent County, MI  
Muskegon County, MI  
Ottawa County, MI

**Great Falls, MT MSA**

Cascade County, MT

**Greeley, CO PMSA**

Weld County, CO

**Green Bay, WI MSA**

Brown County, WI

**Greensboro–Winston-Salem–High Point, NC MSA**

Alamance County, NC  
Davidson County, NC  
Davie County, NC  
Forsyth County, NC  
Guilford County, NC  
Randolph County, NC  
Stokes County, NC  
Yadkin County, NC

**Greenville, NC MSA**

Pitt County, NC

**Greenville–Spartanburg–Anderson, SC MSA**

Anderson County, SC  
Cherokee County, SC  
Greenville County, SC  
Pickens County, SC  
Spartanburg County, SC

**Hagerstown, MD PMSA**

Washington County, MD

**Hamilton–Middletown, OH PMSA**

Butler County, OH

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**Harrisburg–Lebanon–Carlisle, PA MSA**

Cumberland County, PA  
Dauphin County, PA  
Lebanon County, PA  
Perry County, PA

**Hartford, CT MSA**

Hartford County, CT (Part)  
Avon town, CT  
Berlin town, CT  
Bloomfield town, CT  
Bristol city, CT  
East Hartford town, CT  
East Windsor town, CT  
Enfield town, CT  
Farmington town, CT  
Glastonbury town, CT  
Hartford city, CT  
Manchester town, CT  
New Britain city, CT  
Newington town, CT  
Plainville town, CT  
Rocky Hill town, CT  
Simsbury town, CT  
Southington town, CT  
South Windsor town, CT  
Suffield town, CT  
West Hartford town, CT  
Wethersfield town, CT  
Windsor town, CT  
Windsor Locks town, CT  
Litchfield County, CT (Part)  
Plymouth town, CT  
Winchester town, CT  
Middlesex County, CT (Part)  
Cromwell town, CT  
East Hampton town, CT  
Middletown city, CT  
New London County, CT (Part)  
Colchester town, CT

**Hartford, CT MSA—Con.**

Tolland County, CT (Part)  
Coventry town, CT  
Ellington town, CT  
Mansfield town, CT  
Stafford town, CT  
Tolland town, CT  
Vernon town, CT  
Windham County, CT (Part)  
Windham town, CT

**Hattiesburg, MS MSA**

Forrest County, MS  
Lamar County, MS

**Hickory–Morganton–Lenoir, NC MSA**

Alexander County, NC  
Burke County, NC  
Caldwell County, NC  
Catawba County, NC

**Honolulu, HI MSA**

Honolulu County, HI

**Houma, LA MSA**

Lafourche Parish, LA  
Terrebonne Parish, LA

**Houston, TX PMSA**

Chambers County, TX  
Fort Bend County, TX  
Harris County, TX  
Liberty County, TX  
Montgomery County, TX  
Waller County, TX

**Houston–Galveston–Brazoria, TX CMSA**

Brazoria, TX PMSA  
Brazoria County, TX  
Galveston–Texas City, TX PMSA  
Galveston County, TX  
Houston, TX PMSA  
Chambers County, TX  
Fort Bend County, TX



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**Houston–Galveston–Brazoria, TX CMSA—Con.**

Houston, TX PMSA—Con.  
Harris County, TX  
Liberty County, TX  
Montgomery County, TX  
Waller County, TX

**Huntington–Ashland, WV–KY–OH MSA**

Boyd County, KY  
Carter County, KY  
Greenup County, KY  
Lawrence County, OH  
Cabell County, WV  
Wayne County, WV

**Huntsville, AL MSA**

Limestone County, AL  
Madison County, AL

**Indianapolis, IN MSA**

Boone County, IN  
Hamilton County, IN  
Hancock County, IN  
Hendricks County, IN  
Johnson County, IN  
Madison County, IN  
Marion County, IN  
Morgan County, IN  
Shelby County, IN

**Iowa City, IA MSA**

Johnson County, IA

**Jackson, MI MSA**

Jackson County, MI

**Jackson, MS MSA**

Hinds County, MS  
Madison County, MS  
Rankin County, MS

**Jackson, TN MSA**

Chester County, TN  
Madison County, TN

**Jacksonville, FL MSA**

Clay County, FL  
Duval County, FL  
Nassau County, FL  
St. Johns County, FL

**Jacksonville, NC MSA**

Onslow County, NC

**Jamestown, NY MSA**

Chautauqua County, NY

**Janesville–Beloit, WI MSA**

Rock County, WI

**Jersey City, NJ PMSA**

Hudson County, NJ

**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)

**Johnstown, PA MSA**

Cambria County, PA  
Somerset County, PA

**Jonesboro, AR MSA**

Craighead County, AR

**Joplin, MO MSA**

Jasper County, MO  
Newton County, MO

**Kalamazoo–Battle Creek, MI MSA**

Calhoun County, MI  
Kalamazoo County, MI  
Van Buren County, MI

**Kankakee, IL PMSA**

Kankakee County, IL

**Kansas City, MO–KS MSA**

Johnson County, KS  
Leavenworth County, KS

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**Kansas City, MO–KS MSA—Con.**

Miami County, KS  
Wyandotte County, KS  
Cass County, MO  
Clay County, MO  
Clinton County, MO  
Jackson County, MO  
Lafayette County, MO  
Platte County, MO  
Ray County, MO

**Kenosha, WI PMSA**

Kenosha County, WI

**Killeen–Temple, TX MSA**

Bell County, TX  
Coryell County, TX

**Knoxville, TN MSA**

Anderson County, TN  
Blount County, TN  
Knox County, TN  
Loudon County, TN  
Sevier County, TN  
Union County, TN

**Kokomo, IN MSA**

Howard County, IN  
Tipton County, IN

**La Crosse, WI–MN MSA**

Houston County, MN  
La Crosse County, WI

**Lafayette, LA MSA**

Acadia Parish, LA  
Lafayette Parish, LA  
St. Landry Parish, LA  
St. Martin Parish, LA

**Lafayette, IN MSA**

Clinton County, IN  
Tippecanoe County, IN

**Lake Charles, LA MSA**

Calcasieu Parish, LA

**Lakeland–Winter Haven, FL MSA**

Polk County, FL

**Lancaster, PA MSA**

Lancaster County, PA

**Lansing–East Lansing, MI MSA**

Clinton County, MI  
Eaton County, MI  
Ingham County, MI

**Laredo, TX MSA**

Webb County, TX

**Las Cruces, NM MSA**

Dona Ana County, NM

**Las Vegas, NV–AZ MSA**

Mohave County, AZ  
Clark County, NV  
Nye County, NV

**Lawrence, KS MSA**

Douglas County, KS

**Lawrence, MA–NH PMSA**

Essex County, MA (Part)  
Andover town, MA  
Haverhill city, MA  
Lawrence city, MA  
Methuen city, MA  
North Andover town, MA  
Rockingham County, NH (Part)  
Derry town, NH  
Salem town, NH

**Lawton, OK MSA**

Comanche County, OK

**Lewiston–Auburn, ME MSA**

Androscoggin County, ME  
Auburn city, ME  
Lewiston city, ME

**Lexington, KY MSA**

Bourbon County, KY  
Clark County, KY

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**Lexington, KY MSA—Con.**

Fayette County, KY  
Jessamine County, KY  
Madison County, KY  
Scott County, KY  
Woodford County, KY

**Lima, OH MSA**

Allen County, OH  
Auglaize County, OH

**Lincoln, NE MSA**

Lancaster County, NE

**Little Rock–North Little Rock, AR MSA**

Faulkner County, AR  
Lonoke County, AR  
Pulaski County, AR  
Saline County, AR

**Longview–Marshall, TX MSA**

Gregg County, TX  
Harrison County, TX  
Upshur County, TX

**Los Angeles–Riverside–Orange County, CA CMSA**

Los Angeles–Long Beach, CA PMSA  
Los Angeles County, CA  
Orange County, CA PMSA  
Orange County, CA  
Riverside–San Bernardino, CA PMSA  
Riverside County, CA  
San Bernardino County, CA  
Ventura, CA PMSA  
Ventura County, CA

**Los Angeles–Long Beach, CA PMSA**

Los Angeles County, CA

**Louisville, KY–IN MSA**

Clark County, IN  
Floyd County, IN  
Harrison County, IN  
Scott County, IN

**Louisville, KY–IN MSA—Con.**

Bullitt County, KY  
Jefferson County, KY  
Oldham County, KY

**Lowell, MA–NH PMSA**

Middlesex County, MA (Part)  
Billerica town, MA  
Chelmsford town, MA  
Dracut town, MA  
Lowell city, MA  
Pepperell town, MA  
Tewksbury town, MA  
Westford town, MA  
Hillsborough County, NH (Part)  
Pelham town, NH

**Lubbock, TX MSA**

Lubbock County, TX

**Lynchburg, VA MSA**

Amherst County, VA  
Bedford County, VA  
Campbell County, VA  
Bedford, VA (IC)  
Lynchburg, VA (IC)

**Macon, GA MSA**

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

**Madison, WI MSA**

Dane County, WI

**Manchester, NH PMSA**

Hillsborough County, NH (Part)  
Bedford town, NH  
Goffstown town, NH  
Manchester city, NH  
Merrimack County, NH (Part)  
Rockingham County, NH (Part)  
Londonderry town, NH

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**Mansfield, OH MSA**

Crawford County, OH  
Richland County, OH

**McAllen–Edinburg–Mission, TX MSA**

Hidalgo County, TX

**Medford–Ashland, OR MSA**

Jackson County, OR

**Melbourne–Titusville–Palm Bay, FL MSA**

Brevard County, FL

**Memphis, TN–AR–MS MSA**

Crittenden County, AR  
DeSoto County, MS  
Fayette County, TN  
Shelby County, TN  
Tipton County, TN

**Merced, CA MSA**

Merced County, CA

**Miami–Fort Lauderdale, FL CMSA**

Fort Lauderdale, FL PMSA  
Broward County, FL  
Miami, FL PMSA  
Dade County, FL

**Miami, FL PMSA**

Dade County, FL

**Middlesex–Somerset–Hunterdon, NJ PMSA**

Hunterdon County, NJ  
Middlesex County, NJ  
Somerset County, NJ

**Milwaukee–Waukesha, WI PMSA**

Milwaukee County, WI  
Ozaukee County, WI  
Washington County, WI  
Waukesha County, WI

**Milwaukee–Racine, WI CMSA**

Milwaukee–Waukesha, WI PMSA  
Milwaukee County, WI  
Ozaukee County, WI  
Washington County, WI  
Waukesha County, WI

**Milwaukee–Racine, WI CMSA—Con.**

Racine, WI PMSA  
Racine County, WI

**Minneapolis–St. Paul, MN–WI MSA**

Anoka County, MN  
Carver County, MN  
Chisago County, MN  
Dakota County, MN  
Hennepin County, MN  
Isanti County, MN  
Ramsey County, MN  
Scott County, MN  
Sherburne County, MN  
Washington County, MN  
Wright County, MN  
Pierce County, WI  
St. Croix County, WI

**Mobile, AL MSA**

Baldwin County, AL  
Mobile County, AL

**Modesto, CA MSA**

Stanislaus County, CA

**Monmouth–Ocean, NJ PMSA**

Monmouth County, NJ  
Ocean County, NJ

**Monroe, LA MSA**

Ouachita Parish, LA

**Montgomery, AL MSA**

Autauga County, AL  
Elmore County, AL  
Montgomery County, AL

**Muncie, IN MSA**

Delaware County, IN

**Myrtle Beach, SC MSA**

Horry County, SC

**Naples, FL MSA**

Collier County, FL

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**Nashua, NH PMSA**

Hillsborough County, NH (Part)  
Hudson town, NH  
Merrimack town, NH  
Milford town, NH  
Nashua city, NH

**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

**Nassau-Suffolk, NY PMSA**

Nassau County, NY  
Suffolk County, NY

**New Bedford, MA PMSA**

Bristol County, MA (Part)  
Dartmouth town, MA  
Fairhaven town, MA  
New Bedford city, MA  
Plymouth County, MA (Part)

**New Haven-Meriden, CT PMSA**

Middlesex County, CT (Part)  
Clinton town, CT  
New Haven County, CT (Part)  
Branford town, CT  
Cheshire town, CT  
East Haven town, CT  
Guilford town, CT  
Hamden town, CT  
Madison town, CT  
Meriden city, CT  
New Haven city, CT  
North Branford town, CT  
North Haven town, CT

**New Haven-Meriden, CT PMSA—Con.**

New Haven County, CT (Part)—Con.  
Orange town, CT  
Wallingford town, CT  
West Haven city, CT

**New London-Norwich, CT-RI MSA**

Middlesex County, CT (Part)  
New London County, CT (Part)  
East Lyme town, CT  
Groton city, CT  
Groton town balance, CT  
Jewett City borough, CT  
Ledyard town, CT  
Montville town, CT  
New London city, CT  
Norwich city, CT  
Stonington town, CT  
Waterford town, CT  
Windham County, CT (Part)  
Plainfield town, CT  
Washington County, RI (Part)  
Westerly town, RI

**New Orleans, LA MSA**

Jefferson Parish, LA  
Orleans Parish, LA  
Plaquemines Parish, LA  
St. Bernard Parish, LA  
St. Charles Parish, LA  
St. James Parish, LA  
St. John the Baptist Parish, LA  
St. Tammany Parish, LA

**New York, NY PMSA**

Bronx County, NY  
Kings County, NY  
New York County, NY  
Putnam County, NY  
Queens County, NY  
Richmond County, NY

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**New York, NY PMSA—Con.**

Rockland County, NY

Westchester County, NY

**New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA**

Bergen–Passaic, NJ PMSA

Bergen County, NJ

Passaic County, NJ

Bridgeport, CT PMSA

Fairfield County, CT (Part)

Bridgeport city, CT

Fairfield town, CT

Monroe town, CT

Shelton city, CT

Stratford town, CT

Trumbull town, CT

New Haven County, CT (Part)

Ansonia city, CT

Derby city, CT

Milford city, CT

Seymour town, CT

Danbury, CT PMSA

Fairfield County, CT (Part)

Bethel town, CT

Brookfield town, CT

Danbury city, CT

New Fairfield town, CT

Newtown town, CT

Ridgefield town, CT

Litchfield County, CT (Part)

New Milford town, CT

Dutchess County, NY PMSA

Dutchess County, NY

Jersey City, NJ PMSA

Hudson County, NJ

Middlesex–Somerset–Hunterdon, NJ PMSA

Hunterdon County, NJ

Middlesex County, NJ

Somerset County, NJ

**New York–Northern New Jersey–Long Island, NY–NJ–CT–PA CMSA—Con.**

Monmouth–Ocean, NJ PMSA

Monmouth County, NJ

Ocean County, NJ

Nassau–Suffolk, NY PMSA

Nassau County, NY

Suffolk County, NY

New Haven–Meriden, CT PMSA

Middlesex County, CT (Part)

Clinton town, CT

New Haven County, CT (Part)

Branford town, CT

Cheshire town, CT

East Haven town, CT

Guilford town, CT

Hamden town, CT

Madison town, CT

Meriden city, CT

New Haven city, CT

North Branford town, CT

North Haven town, CT

Orange town, CT

Wallingford town, CT

West Haven city, CT

New York, NY PMSA

Bronx County, NY

Kings County, NY

New York County, NY

Putnam County, NY

Queens County, NY

Richmond County, NY

Rockland County, NY

Westchester County, NY

Newark, NJ PMSA

Essex County, NJ

Morris County, NJ

Sussex County, NJ

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**New York–Northern New Jersey–Long Island, NY–  
NJ–CT–PA CMSA—Con.**

Newark, NJ PMSA—Con.

Union County, NJ

Warren County, NJ

Newburgh, NY–PA PMSA

Orange County, NY

Pike County, PA

Stamford–Norwalk, CT PMSA

Fairfield County, CT (Part)

Darien town, CT

Greenwich town, CT

New Canaan town, CT

Norwalk city, CT

Stamford city, CT

Westport town, CT

Wilton town, CT

Trenton, NJ PMSA

Mercer County, NJ

Waterbury, CT PMSA

Litchfield County, CT (Part)

Watertown town, CT

New Haven County, CT (Part)

Naugatuck, CT

Southbury town, CT

Waterbury city, CT

Wolcott town, CT

**Newark, NJ PMSA**

Essex County, NJ

Morris County, NJ

Sussex County, NJ

Union County, NJ

Warren County, NJ

**Newburgh, NY–PA PMSA**

Orange County, NY

Pike County, PA

**Norfolk–Virginia Beach–Newport News, VA–NC MSA**

Currituck County, NC

Gloucester County, VA

Isle of Wight County, VA

James City County, VA

Mathews County, VA

York County, VA

Chesapeake, VA (IC)

Hampton, VA (IC)

Newport News, VA (IC)

Norfolk, VA (IC)

Poquoson, VA (IC)

Portsmouth, VA (IC)

Suffolk, VA (IC)

Virginia Beach, VA (IC)

Williamsburg, VA (IC)

**Oakland, CA PMSA**

Alameda County, CA

Contra Costa County, CA

**Ocala, FL MSA**

Marion County, FL

**Odessa–Midland, TX MSA**

Ector County, TX

Midland County, TX

**Oklahoma City, OK MSA**

Canadian County, OK

Cleveland County, OK

Logan County, OK

McClain County, OK

Oklahoma County, OK

Pottawatomie County, OK

**Olympia, WA PMSA**

Thurston County, WA

**Omaha, NE–IA MSA**

Pottawattamie County, IA

Cass County, NE

Douglas County, NE

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**Omaha, NE-IA MSA—Con.**

Sarpy County, NE  
Washington County, NE

**Orange County, CA PMSA**

Orange County, CA

**Orlando, FL MSA**

Lake County, FL  
Orange County, FL  
Osceola County, FL  
Seminole County, FL

**Owensboro, KY MSA**

Daviess County, KY

**Panama City, FL MSA**

Bay County, FL

**Parkersburg–Marietta, WV–OH MSA**

Washington County, OH  
Wood County, WV

**Pensacola, FL MSA**

Escambia County, FL  
Santa Rosa County, FL

**Peoria–Pekin, IL MSA**

Peoria County, IL  
Tazewell County, IL  
Woodford County, IL

**Philadelphia, PA–NJ PMSA**

Burlington County, NJ  
Camden County, NJ  
Gloucester County, NJ  
Salem County, NJ  
Bucks County, PA  
Chester County, PA  
Delaware County, PA  
Montgomery County, PA  
Philadelphia County, PA

**Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD  
CMSA**

Atlantic–Cape May, NJ PMSA  
Atlantic County, NJ  
Cape May County, NJ

**Philadelphia–Wilmington–Atlantic City, PA–NJ–DE–MD  
CMSA—Con.**

Philadelphia, PA–NJ PMSA  
Burlington County, NJ  
Camden County, NJ  
Gloucester County, NJ  
Salem County, NJ  
Bucks County, PA  
Chester County, PA  
Delaware County, PA  
Montgomery County, PA  
Philadelphia County, PA  
Vineland–Millville–Bridgeton, NJ PMSA  
Cumberland County, NJ  
Wilmington–Newark, DE–MD PMSA  
New Castle County, DE  
Cecil County, MD

**Phoenix–Mesa, AZ MSA**

Maricopa County, AZ  
Pinal County, AZ

**Pine Bluff, AR MSA**

Jefferson County, AR

**Pittsburgh, PA MSA**

Allegheny County, PA  
Beaver County, PA  
Butler County, PA  
Fayette County, PA  
Washington County, PA  
Westmoreland County, PA

**Pittsfield, MA MSA**

Berkshire County, MA (Part)  
Pittsfield city, MA

**Pocatello, ID MSA**

Bannock County, ID

**Portland, ME MSA**

Cumberland County, ME (Part)  
Gorham town, ME  
Portland city, ME



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**Portland, ME MSA—Con.**

Cumberland County, ME (Part)—Con.  
Scarborough town, ME  
South Portland city, ME  
Westbrook city, ME  
Windham town, ME  
York County, ME (Part)

**Portland–Vancouver, OR–WA PMSA**

Clackamas County, OR  
Columbia County, OR  
Multnomah County, OR  
Washington County, OR  
Yamhill County, OR  
Clark County, WA

**Portland–Salem, OR–WA CMSA**

Portland–Vancouver, OR–WA PMSA  
Clackamas County, OR  
Columbia County, OR  
Multnomah County, OR  
Washington County, OR  
Yamhill County, OR  
Clark County, WA  
Salem, OR PMSA  
Marion County, OR  
Polk County, OR

**Portsmouth–Rochester, NH–ME PMSA**

York County, ME (Part)  
York town, ME  
Rockingham County, NH (Part)  
Exeter town, NH  
Hampton town, NH  
Portsmouth city, NH  
Strafford County, NH (Part)  
Dover city, NH  
Durham town, NH  
Rochester city, NH  
Somersworth city, NH

**Providence–Fall River–Warwick, RI–MA MSA**

Bristol County, MA (Part)  
Attleboro city, MA  
Fall River city, MA  
North Attleborough town, MA  
Seekonk town, MA  
Somerset town, MA  
Swansea town, MA  
Westport town, MA  
Bristol County, RI  
Barrington town, RI  
Bristol town, RI  
Warren town, RI  
Kent County, RI  
Coventry town, RI  
East Greenwich town, RI  
Warwick city, RI  
West Warwick town, RI  
Newport County, RI (Part)  
Tiverton town, RI  
Providence County, RI  
Burrillville town, RI  
Central Falls city, RI  
Cranston city, RI  
Cumberland town, RI  
East Providence city, RI  
Johnston town, RI  
Lincoln town, RI  
North Providence town, RI  
North Smithfield town, RI  
Pawtucket city, RI  
Providence city, RI  
Scituate town, RI  
Smithfield town, RI  
Woonsocket city, RI  
Washington County, RI (Part)  
Narragansett town, RI  
North Kingstown town, RI  
South Kingstown town, RI

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**Provo–Orem, UT MSA**

Utah County, UT

**Pueblo, CO MSA**

Pueblo County, CO

**Punta Gorda, FL MSA**

Charlotte County, FL

**Racine, WI PMSA**

Racine County, WI

**Raleigh–Durham–Chapel Hill, NC MSA**

Chatham County, NC

Durham County, NC

Franklin County, NC

Johnston County, NC

Orange County, NC

Wake County, NC

**Rapid City, SD MSA**

Pennington County, SD

**Reading, PA MSA**

Berks County, PA

**Redding, CA MSA**

Shasta County, CA

**Reno, NV MSA**

Washoe County, NV

**Richland–Kennewick–Pasco, WA MSA**

Benton County, WA

Franklin County, WA

**Richmond–Petersburg, VA MSA**

Charles City County, VA

Chesterfield County, VA

Dinwiddie County, VA

Goochland County, VA

Hanover County, VA

Henrico County, VA

New Kent County, VA

Powhatan County, VA

Prince George County, VA

Colonial Heights, VA (IC)

Hopewell, VA (IC)

**Richmond–Petersburg, VA MSA—Con.**

Petersburg, VA (IC)

Richmond, VA (IC)

**Riverside–San Bernardino, CA PMSA**

Riverside County, CA

San Bernardino County, CA

**Roanoke, VA MSA**

Botetourt County, VA

Roanoke County, VA

Roanoke, VA (IC)

Salem, VA (IC)

**Rochester, MN MSA**

Olmsted County, MN

**Rochester, NY MSA**

Genesee County, NY

Livingston County, NY

Monroe County, NY

Ontario County, NY

Orleans County, NY

Wayne County, NY

**Rockford, IL MSA**

Boone County, IL

Ogle County, IL

Winnebago County, IL

**Rocky Mount, NC MSA**

Edgecombe County, NC

Nash County, NC

**Sacramento, CA PMSA**

El Dorado County, CA

Placer County, CA

Sacramento County, CA

**Sacramento–Yolo, CA CMSA**

Sacramento, CA PMSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo, CA PMSA

Yolo County, CA

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**Saginaw–Bay City–Midland, MI MSA**

Bay County, MI

Midland County, MI

Saginaw County, MI

**St. Cloud, MN MSA**

Benton County, MN

Stearns County, MN

**St. Joseph, MO MSA**

Andrew County, MO

Buchanan County, MO

**St. Louis, MO–IL MSA**

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

Lincoln County, MO

St. Charles County, MO

St. Louis County, MO

Warren County, MO

St. Louis, MO (IC)

**Salem, OR PMSA**

Marion County, OR

Polk County, OR

**Salinas, CA MSA**

Monterey County, CA

**Salt Lake City–Ogden, UT MSA**

Davis County, UT

Salt Lake County, UT

Weber County, UT

**San Angelo, TX MSA**

Tom Green County, TX

**San Antonio, TX MSA**

Bexar County, TX

Comal County, TX

Guadalupe County, TX

Wilson County, TX

**San Diego, CA MSA**

San Diego County, CA

**San Francisco, CA PMSA**

Marin County, CA

San Francisco County, CA

San Mateo County, CA

**San Francisco–Oakland–San Jose, CA CMSA**

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

Santa Cruz–Watsonville, CA PMSA

Santa Cruz County, CA

Santa Rosa, CA PMSA

Sonoma County, CA

Vallejo–Fairfield–Napa, CA PMSA

Napa County, CA

Solano County, CA

**San Jose, CA PMSA**

Santa Clara County, CA

**San Luis Obispo–Atascadero–Paso Robles, CA MSA**

San Luis Obispo County, CA

**Santa Barbara–Santa Maria–Lompoc, CA MSA**

Santa Barbara County, CA

**Santa Cruz–Watsonville, CA PMSA**

Santa Cruz County, CA

**Santa Fe, NM MSA**

Los Alamos County, NM

Santa Fe County, NM

**Santa Rosa, CA PMSA**

Sonoma County, CA

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**Sarasota–Bradenton, FL MSA**

Manatee County, FL  
Sarasota County, FL

**Savannah, GA MSA**

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

**Scranton–Wilkes-Barre–Hazleton, PA MSA**

Columbia County, PA  
Lackawanna County, PA  
Luzerne County, PA  
Wyoming County, PA

**Seattle–Bellevue–Everett, WA PMSA**

Island County, WA  
King County, WA  
Snohomish County, WA

**Seattle–Tacoma–Bremerton, WA CMSA**

Bremerton, WA PMSA  
Kitsap County, WA  
Olympia, WA PMSA  
Thurston County, WA  
Seattle–Bellevue–Everett, WA PMSA  
Island County, WA  
King County, WA  
Snohomish County, WA  
Tacoma, WA PMSA  
Pierce County, WA

**Sharon, PA MSA**

Mercer County, PA

**Sheboygan, WI MSA**

Sheboygan County, WI

**Sherman–Denison, TX MSA**

Grayson County, TX

**Shreveport–Bossier City, LA MSA**

Bossier Parish, LA  
Caddo Parish, LA  
Webster Parish, LA

**Sioux City, IA–NE MSA**

Woodbury County, IA  
Dakota County, NE

**Sioux Falls, SD MSA**

Lincoln County, SD  
Minnehaha County, SD

**South Bend, IN MSA**

St. Joseph County, IN

**Spokane, WA MSA**

Spokane County, WA

**Springfield, IL MSA**

Menard County, IL  
Sangamon County, IL

**Springfield, MO MSA**

Christian County, MO  
Greene County, MO  
Webster County, MO

**Springfield, MA MSA**

Franklin County, MA (Part)  
Hampden County, MA (Part)  
Agawam city, MA  
Chicopee city, MA  
East Longmeadow town, MA  
Holyoke city, MA  
Longmeadow town, MA  
Ludlow town, MA  
Palmer town, MA  
Springfield city, MA  
Westfield city, MA  
West Springfield town, MA  
Wilbraham town, MA  
Hampshire County, MA (Part)  
Amherst town, MA  
Belchertown town, MA  
Easthampton town, MA  
Northampton city, MA  
South Hadley town, MA

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**Stamford–Norwalk, CT PMSA**

Fairfield County, CT (Part)  
Darien town, CT  
Greenwich town, CT  
New Canaan town, CT  
Norwalk city, CT  
Stamford city, CT  
Westport town, CT  
Wilton town, CT

**State College, PA MSA**

Centre County, PA

**Steubenville–Weirton, OH–WV MSA**

Jefferson County, OH  
Brooke County, WV  
Hancock County, WV

**Stockton–Lodi, CA MSA**

San Joaquin County, CA

**Sumter, SC MSA**

Sumter County, SC

**Syracuse, NY MSA**

Cayuga County, NY  
Madison County, NY  
Onondaga County, NY  
Oswego County, NY

**Tacoma, WA PMSA**

Pierce County, WA

**Tallahassee, FL MSA**

Gadsden County, FL  
Leon County, FL

**Tampa–St. Petersburg–Clearwater, FL MSA**

Hernando County, FL  
Hillsborough County, FL  
Pasco County, FL  
Pinellas County, FL

**Terre Haute, IN MSA**

Clay County, IN  
Vermillion County, IN  
Vigo County, IN

**Texarkana, TX–Texarkana, AR MSA**

Miller County, AR  
Bowie County, TX

**Toledo, OH MSA**

Fulton County, OH  
Lucas County, OH  
Wood County, OH

**Topeka, KS MSA**

Shawnee County, KS

**Trenton, NJ PMSA**

Mercer County, NJ

**Tucson, AZ MSA**

Pima County, AZ

**Tulsa, OK MSA**

Creek County, OK  
Osage County, OK  
Rogers County, OK  
Tulsa County, OK  
Wagoner County, OK

**Tuscaloosa, AL MSA**

Tuscaloosa County, AL

**Tyler, TX MSA**

Smith County, TX

**Utica–Rome, NY MSA**

Herkimer County, NY  
Oneida County, NY

**Vallejo–Fairfield–Napa, CA PMSA**

Napa County, CA  
Solano County, CA

**Ventura, CA PMSA**

Ventura County, CA

**Victoria, TX MSA**

Victoria County, TX

**Vineland–Millville–Bridgeton, NJ PMSA**

Cumberland County, NJ

**Visalia–Tulare–Porterville, CA MSA**

Tulare County, CA

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**Waco, TX MSA**

McLennan County, TX

**Washington, DC–MD–VA–WV PMSA**

District of Columbia, DC

Calvert County, MD

Charles County, MD

Frederick County, MD

Montgomery County, MD

Prince George's County, MD

Arlington County, VA

Clarke County, VA

Culpeper County, VA

Fairfax County, VA

Fauquier County, VA

King George County, VA

Loudoun County, VA

Prince William County, VA

Spotsylvania County, VA

Stafford County, VA

Warren County, VA

Alexandria, VA (IC)

Fairfax, VA (IC)

Falls Church, VA (IC)

Fredericksburg, VA (IC)

Manassas, VA (IC)

Manassas Park, VA (IC)

Berkeley County, WV

Jefferson County, WV

**Washington–Baltimore, DC–MD–VA–WV CMSA**

Baltimore, MD PMSA

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore, MD (IC)

**Washington–Baltimore, DC–MD–VA–WV CMSA—Con.**

Hagerstown, MD PMSA

Washington County, MD

Washington, DC–MD–VA–WV PMSA

District of Columbia, DC

Calvert County, MD

Charles County, MD

Frederick County, MD

Montgomery County, MD

Prince George's County, MD

Arlington County, VA

Clarke County, VA

Culpeper County, VA

Fairfax County, VA

Fauquier County, VA

King George County, VA

Loudoun County, VA

Prince William County, VA

Spotsylvania County, VA

Stafford County, VA

Warren County, VA

Alexandria, VA (IC)

Fairfax, VA (IC)

Falls Church, VA (IC)

Fredericksburg, VA (IC)

Manassas, VA (IC)

Manassas Park, VA (IC)

Berkeley County, WV

Jefferson County, WV

**Waterbury, CT PMSA**

Litchfield County, CT (Part)

Watertown town, CT

New Haven County, CT (Part)

Naugatuck, CT

Southbury town, CT

Waterbury city, CT

Wolcott town, CT

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**Waterloo–Cedar Falls, IA MSA**

Black Hawk County, IA

**Wausau, WI MSA**

Marathon County, WI

**West Palm Beach–Boca Raton, FL MSA**

Palm Beach County, FL

**Wheeling, WV–OH MSA**

Belmont County, OH

Marshall County, WV

Ohio County, WV

**Wichita, KS MSA**

Butler County, KS

Harvey County, KS

Sedgwick County, KS

**Wichita Falls, TX MSA**

Archer County, TX

Wichita County, TX

**Williamsport, PA MSA**

Lycoming County, PA

**Wilmington–Newark, DE–MD PMSA**

New Castle County, DE

Cecil County, MD

**Wilmington, NC MSA**

Brunswick County, NC

New Hanover County, NC

**Worcester, MA–CT PMSA**

Windham County, CT (Part)

Hampden County, MA (Part)

**Worcester, MA–CT PMSA—Con.**

Worcester County, MA (Part)

Auburn town, MA

Charlton town, MA

Clinton town, MA

Grafton town, MA

Holden town, MA

Leicester town, MA

Millbury town, MA

Northborough town, MA

Northbridge town, MA

Oxford town, MA

Shrewsbury town, MA

Southbridge town, MA

Spencer town, MA

Uxbridge town, MA

Webster town, MA

Westborough town, MA

Worcester city, MA

**Yakima, WA MSA**

Yakima County, WA

**Yolo, CA PMSA**

Yolo County, CA

**York, PA MSA**

York County, PA

**Youngstown–Warren, OH MSA**

Columbiana County, OH

Mahoning County, OH

Trumbull County, OH

**Yuba City, CA MSA**

Sutter County, CA

Yuba County, CA

**Yuma, AZ MSA**

Yuma County, AZ

# Appendix F. Footnotes for Products Statistics and Materials Consumed by Kind

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Not applicable for this report.



# Appendix G. Comparability of Product Classes and Product Codes: 1997 to 1992

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Not applicable for this report.

# Appendix H. Report Forms

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Sample report forms begin on page H-2.



FORM  
**NC-9923**  
(1997)

# 1997 ECONOMIC CENSUS GENERAL SCHEDULE

OMB No. 0607-0842: Approval Expires 05/31/2000

An Office of Management and Budget (OMB) control number is printed in the upper right corner of this form. If OMB number is not shown on this questionnaire, this survey is invalid. We estimate that it will take 10 minutes to complete this questionnaire. If you have any comments regarding these estimates or other aspects of this survey, send them to the Associate Director for Administration, Attn: Paperwork Reduction Project 0607-0000, Room 3104, FB-3, Bureau of the Census, Washington, DC 20233-3600.

**DUE DATE: 30 DAYS AFTER RECEIPT OF FORM**

Return your completed form to:

**BUREAU OF THE CENSUS**  
1201 East Tenth Street  
Jeffersonville, IN 47132-0001

**Item 1. EMPLOYER IDENTIFICATION NUMBER**

Is the Employer Identification Number (EIN) shown in the label the SAME as the one used for this establishment on its latest 1997 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094 1  Yes  
2  No - Report current (9 digits) EIN → 

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**Item 2. PHYSICAL LOCATION - (Answer a through d)**

**a.** Is this establishment's physical location the same as the address shown in the label? (P.O. box and rural route addresses are not physical locations)

Yes  
 No - Enter physical location →

Number and street		
City, village, or other place	State	ZIP Code

**b.** Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1  Yes 3  No legal boundaries  
2  No 4  Do not know

**c.** In what type of municipality is this establishment located?

096 1  City, village, or borough 3  Other - Specify \_\_\_\_\_  
2  Town or township 4  Do not know

**d.** In what county is this establishment located?

**Item 3. BUSINESS OR ACTIVITY**

Find the Economic Sector (Retail, Wholesale, Services, Manufacturing, etc.). Then, mark (X) only ONE box describing the PRINCIPAL activity of this establishment in 1997. Do NOT mark more than ONE box for ALL of item 3.

**SERVICES (S)**

**Health Services**

- 809310 6  Family Planning Center
- 801104 1  Freestanding Ambulatory Surgical and Emergency Center
- 801103 3  HMO Medical Center
- 808200 0  Home Health Care Service
- 804100 6  Office of Chiropractor
- 802100 8  Office of Dentist
- 801101 7  Office of Doctor of Medicine (Except Mental Health Specialist)
- 801102 5  Office of Doctor of Medicine, Mental Health Specialist
- 803101 5  Office of Doctor of Osteopathy (Except Mental Health Specialist)
- 803102 3  Office of Doctor of Osteopathy, Mental Health Specialist
- 804200 4  Office of Optometrist
- 804300 2  Office of Podiatrist
- 809320 5  Outpatient Mental Health and Substance Abuse Center
- Other Health Services - Specify ↗

**Lodging**

- 701170 3  Bed and Breakfast Inn With 25 Guestrooms or More
- 701190 1  Bed and Breakfast Inn With Less Than 25 Guestrooms
- 701150 5  Casino Hotel
- 701160 4  Hotel (Except Casino Hotels) With 25 Guestrooms or More
- 701180 2  Hotel With Less Than 25 Guestrooms
- 701131 5  Motel and Tourist Court
- 701140 6  Motor Hotel
- 704110 6  Organization Hotel
- 704120 5  Organization Rooming and Boarding House
- 702100 9  Rooming and Boarding House
- 703200 6  Recreational and Sporting Camp
- 703300 4  RV (Recreational Vehicle) Park and Campground
- Other Traveler Accommodations - Specify ↗

(Specify source of receipts in Item 4)

(Specify source of receipts in Item 4)

**Continue with Services on page 2** →

Item 3. BUSINESS OR ACTIVITY – Continued

**SERVICES (S) – Continued**

**Business Services**

- 874210 8  Administrative Management and General Management Consulting
- 731100 4  Advertising Agency
- 871200 2  Architectural Service
- 724120 1  Barber College
- 723130 1  Beauty and Cosmetology School
- 864110 2  Civic and Social Organization With Restaurant and Bar
- 864120 1  Civic and Social Organization Without Restaurant and Bar
- 733610 0  Commercial Art
- 733500 3  Commercial Photography
- 737100 8  Computer Programming Service
- 874120 9  Construction Management – Buildings
- 874130 8  Construction Management – Heavy Construction
- 733820 5  Court Reporting
- 733810 6  Document Preparation Service
- 874850 1  Economic or Industrial Planning or Development Organization
- 874830 3  Economic, Radio, and Traffic Consultant
- 874810 5  Educational Testing and Evaluation Service
- 736330 2  Employee Leasing Service
- 736110 8  Employment Agency (Except Executive Placement Services)
- 871100 4  Engineering Service
- 899920 3  Environmental Consulting
- 736120 7  Executive Placement Service
- 871320 8  Geophysical Surveying
- 733620 9  Graphic Design Service
- 874220 7  Human Resources and Personnel Management Consulting
- 738920 8  Interior Design Service
- 738111 4  Investigation Service
- 734900 4  Janitorial Service
- 863100 4  Labor Union and Similar Labor Organization
- 811110 6  Lawyer, Office of
- 874110 0  Management Service (Except Construction)
- 873220 8  Market Research and Public Opinion Research Polling
- 874230 6  Marketing Consulting
- 738997 6  Printing Broker
- 874240 5  Process, Physical Distribution, and Logistics Consulting
- 874300 7  Public Relations Service
- Rental and Leasing – *Specify* ✓

(Specify source of receipts in Item 4)

- 874840 2  Safety Consulting
- 738910 9  Sign Making to Individual Order
- 873210 9  Social Science and Humanities Research, Commercial
- 737200 6  Software Publishing
- 794141 2  Stadium Operator (Promoting Events)
- 871310 9  Surveying Service (Except Geophysical)
- 738907 5  Telemarketing Bureau
- 736310 4  Temporary Help Supply
- 874820 4  Urban and City Planning
- Other Business Services – *Specify* ✓

(Specify source of receipts in Item 4)

**Personal Services**

- 799610 1  Amusement Park (Except Waterpark)
- 799330 6  Arcade and Family Fun Center
- 738995 0  Bail Bonding
- 724110 2  Barber Shop
- 723110 3  Beauty Shop
- 753940 6  Brake Repair and Wheel Alignment Shop
- 799905 5  Casinos (Except Casino Hotel)
- 721700 3  Carpet and Upholstery Cleaning
- 754200 4  Carwash
- 835100 9  Child Day Care Service
- 832210 9  Child and Youth Service
- 721510 6  Coin-operated Laundry and Drycleaning
- 832240 6  Community Food Service
- 726120 9  Crematory
- 729970 4  Diet and Weight Reducing Service
- 769932 5  Drain Cleaning
- 721600 5  Drycleaning Plant
- 832270 3  Emergency and Other Relief Service
- 734210 8  Exterminating and Pest Control Service
- 729980 3  Formal Wear Rental
- 726110 0  Funeral Home
- 769902 8  Furnace, Duct, Chimney and Gutter Repair
- 721910 8  Garment Repair and Alteration Service
- 753800 2  General Motor Vehicle Repair Shop
- 799100 3  Gymnasium, Athletic Club, or Physical Fitness Center
- 738912 5  Home and Building Inspection Service
- 864130 0  Homeowner and Condominium Association (Not Providing Property Management)
- 721100 6  Laundry, Family and Commercial
- 811130 4  Legal Aid Society and Similar Legal Service
- 721300 2  Linen Supply
- 769991 1  Locksmith
- 754910 8  Motor Vehicle Oil Change and Lubrication Shop
- 753700 4  Motor Vehicle Transmission Repair Shop
- 723120 2  Nail Salon
- 738420 9  One-hour (mini) Photofinishing
- 753230 2  Paint or Body Repair Shop
- 752100 8  Parking Lot
- 733400 6  Photocopying and Duplicating Service
- 738410 0  Photofinishing Laboratories (Except One-hour)
- 722100 5  Photography Service
- 866100 1  Religious Organization
- 864140 9  Scouting and Related Youth Development Organization
- 738200 5  Security Systems: Sell, Install, Monitor
- 832220 8  Service for the Elderly and Persons With Disabilities
- 725100 2  Shoe Repair Shop and Shoeshine Parlor
- 738905 9  Swimming Pool Cleaning and Maintenance
- 729100 8  Tax Preparation Service
- 738930 7  Telephone Answering Service
- 832250 5  Temporary Shelter
- 753410 0  Tire Repair Shop
- 753420 9  Tire Retreading, Rebuilding, and Recapping
- 754920 7  Towing or Wrecker Service
- 753250 0  Upholstery and Interior Repair Shop (Automotive)
- 729999 3  Valet Parking
- 753240 1  Van Conversion Service
- 784100 0  Video Tape Rental
- 799620 0  Waterpark
- 738940 6  Water Softening and Conditioning Service
- 738921 6  Welcoming Service
- Other Personal Services – *Specify* ✓

(Specify source of receipts in Item 4)

**Continue in next column** →

**Item 3. BUSINESS OR ACTIVITY – Continued**

881100 2  Private Household (employing domestic help, e.g., cooks, maids, gardeners, etc.)

**RETAIL TRADE (R)**

Retail is selling primarily from displayed merchandise for end-use. Most customers are household consumers.

- 553110 8  Auto Supply Store
- 573110 4  Automotive Radio Store
- 573120 3  Other Radio, TV, and Electronics Store
- 581291 2  Bagel Shop
- 546150 4  Bakery (primarily selling goods NOT baked on premises for carry-out customers)
- 546111 6  Bakery (primarily selling goods baked on premises for carry-out customers)
- 592100 2  Beer, Wine, and Liquor Store
- 594130 7  Bicycle Shop
- 571910 9  Blind and Shade Store
- 571920 8  All Other Homefurnishings Store
- 581230 0  Cafeteria
- 581220 1  Caterer
- 573420 7  Computer Software Store
- 573411 6  Computer Store Primarily Selling Pre-assembled Computers Not Assembled at this Location
- 573412 4  Computer Store-Primarily Selling Computers Assembled from Components at this Location
- 541120 2  Convenience Store
- 541130 1  Convenience Store Selling Gasoline
- 546112 4  Cookie Shop
- 571211 2  Custom Upholstered Household Furniture Store
- 541142 6  Delicatessen, Primarily Selling Fresh and Prepared Meats
- 541141 8  Delicatessen, Primarily Selling Meats and a Range of Grocery Items
- 581280 5  Delicatessen Restaurant
- 581211 0  Dinner Theater
- 546130 6  Donut Shop, Baking on Premises
- 546140 5  Donut Shop, Not Baking on Premises
- 581300 1  Drinking Place (Alcoholic Beverages)
- 565100 5  Family Clothing Store
- 571300 3  Floor Covering Store
- 599200 3  Florist
- 581250 8  Foodservice Contractor
- 581212 8  Full-service Restaurant
- 571250 0  Furniture Store (Except Custom)
- 554110 7  Gasoline Station With No Convenience Store
- 554130 5  Gasoline Station With Convenience Store
- 594110 9  General-line Sporting Goods Store
- 594700 7  Gift, Novelty, and Souvenir Store
- 525100 4  Hardware Store
- 599991 7  Health Care Store
- 572200 4  Household Appliance Store
- 581260 7  Ice Cream and Soft Serve Shop
- 594400 4  Jewelry Store
- 596130 5  Mail-order House, Specialized Merchandise
- 596120 6  Mail-order House, Other General Merchandise
- 551100 1  New Car Dealer
- 553120 7  New Tire Dealer
- 526120 1  Nursery and Garden Center
- 526110 2  Outdoor Power Equipment Store
- 593222 3  Pawn Shop
- 599910 7  Pet and Pet Supplies Store
- 591210 0  Pharmacy and Drug Store
- 593221 5  Second-hand Store (Except Pawn Shop)
- 581293 8  Snack and Nonalcoholic Beverage Bar
- 541150 9  Supermarket and Grocery Store
- 554120 6  Truck Stop
- 552100 0  Used Car Dealer
- 562100 8  Women's Clothing Store
- 566120 2  Women's Shoe Store
- Other Retail Businesses – *Specify* ↗

(Specify source of receipts in Item 4)

**TRANSPORTATION (T)**

- 421340 1  Agricultural Products Trucking (Except Local)
- 421240 3  Agricultural Products Trucking Without Storage, Local
- 451300 8  Air Courier Service, Including Delivery of Parcels Weighing 100 lbs. or Less
- 458102 1  Airport Operation and Terminal Service
- 421520 8  Courier Service (Except Local or By Air)
- 411930 1  Ambulance or Rescue Service (Except By Air)
- 473121 2  Arrangement of Transportation of Freight/Cargo
- 421270 0  Dump Trucking
- 473110 5  Freight Forwarding
- 421322 9  General Freight Trucking, Less Than Truckload, (Except Local)
- 421222 1  General Freight Trucking Without Storage, Local, Less Than Truckload
- 421321 1  General Freight Trucking, Truckload, (Except Local)
- 421221 3  General Freight Trucking Without Storage, Local, Truckload
- 421230 4  Hazardous Material Trucking (Except Waste), Local
- 421330 2  Hazardous Material Trucking (Except Waste), (Except Local)
- 421262 7  Hazardous Waste Collection
- 421261 9  Solid Waste Collection
- 421269 2  Other Waste Collection
- 421210 6  Household Goods Moving Without Storage, Local
- 421310 4  Household Goods Moving (Except Local)
- 411920 2  Limousine or Auto Rental With Driver
- 421510 9  Messenger Services, Local
- 411101 9  Mixed Mode Transit Systems
- 452201 7  Nonscheduled Charter Passenger Air Transportation
- 415100 7  School Bus Service
- 411992 1  Special Needs Transportation (Paratransit, Senior Citizen, Handicapped, etc.)
- 421290 8  Specialized Trucking Without Storage, Local
- 421390 6  Specialized Trucking (Except Local)
- 473122 0  Tariff Consultant
- 412100 0  Taxicab Service
- 472400 1  Travel Agency
- 422510 8  Warehousing and Storage, General
- Other Transportation – *Specify* ↗

(Specify source of receipts in Item 4)

**FINANCE, INSURANCE, AND REAL ESTATE (F)**

- 673301 8  Administrator of Private Estates
- 628201 6  Asset/Portfolio Management (With Authority to Make Investment Decisions)
- 653142 0  Cemetery Management
- 641191 2  Claims Adjuster
- 653150 3  Condominium, Cooperative Housing, and Homeowners' Association
- 673200 2  Grantmaking Foundation
- 641110 2  Insurance Agency and Brokerage
- 628202 4  Investment Advice, Without Portfolio Management
- 651300 6  Lessor of Apartment Buildings
- 651220 6  Lessor of Manufacturing and Industrial Buildings
- 651210 7  Lessor of Professional and Other Office Buildings
- 651230 5  Lessor of Shopping Centers and Retail Stores
- 651291 7  Lessor of Other Nonresidential Buildings
- 616300 0  Mortgage Broker
- 653141 2  Nonresidential Property Manager
- 653120 6  Nonresidential Real Estate Agent and Broker
- 653160 2  Real Estate Appraiser
- 653110 7  Residential Real Estate Agent and Broker
- 653130 5  Residential Property Manager
- 621102 3  Securities Brokerage
- 641192 0  Third Party Administration of Insurance
- Other Financial, Insurance or Real Estate Activities – *Specify* ↗

(Specify source of receipts in Item 4)

Penalty for Failure to Report

Continue on page 4

**Item 3. BUSINESS OR ACTIVITY – Continued**

**WHOLESALE TRADE (W)**

**OTHER (O)**

Wholesale is selling primarily either by order or from inventory. Most customers are retailers, other wholesalers, and large businesses.

Principal Commodity Sold – *Specify* ↗

- Agent or Broker
- Merchant
- Other Type of Wholesaler – *Specify* ↗

(Specify source of receipts in Item 4)

- Agricultural Production
- Agricultural Service
- Communications
- Electric, Gas, or Sanitary Services
- Mineral Extraction
- Mineral Service
- Other Business or Activity

} *Specify below* ↗

(Specify source of receipts of Item 4)

**MANUFACTURING (M)**

- Publishing, or Publishing and Printing – *Specify (newspapers, books, magazines, database, etc.)* ↗

(Specify source of receipts in Item 4)

- 275210 3  Quick Printing
- 275230 1  Commercial Lithographic Printing
- Other Commercial Printing – *Specify* ↗

(Specify source of receipts in Item 4)

- 241100 7  Logging Camp and Logging Contractor
- 359940 4  Machine Shop
- Other Manufacturing – *Specify* ↗

(Specify source of receipts in Item 4 and materials consumed in Item 5)

**CONSTRUCTION (C)**

**Building Construction – General Contractor**

- 152100 4  Single Family Houses
- 152210 1  Hotels and Motels
- 152220 0  Other Residential Buildings
- 154110 1  Commercial Warehouses
- 154120 0  Industrial Buildings and Warehouses
- 154200 0  Other Nonresidential Buildings

**Operative Builders**

- 153110 2  Single Family Housing
- 153120 1  Multi-family Housing
- 153130 0  Manufacturing and Light Industrial Building Construction
- 154110 1  Commercial Warehouse

**Heavy Construction Contractor**

- 161100 3  Highway and Street Construction, Except Elevated Highways
- Other Heavy Construction – *Specify* ↗

(Specify source of receipts in Item 4)

**Special Trade Contractor**

- 179930 3  Asbestos Abatement and Lead Paint Removal
- 175100 7  Carpentry Work
- 177120 3  Concrete Work, Except Stucco
- 173100 9  Electrical Work
- 179400 7  Excavation Work
- 175200 5  Floor Laying and Other Floor Work
- 174100 8  Masonry, Stone Setting and Other Stone Work
- 172100 0  Painting and Paper Hanging
- 171100 1  Plumbing, Heating, and Air Conditioning (HVAC)
- 176100 6  Roofing, Siding, and Sheet Metal Work
- Other Special Trade Contractor – *Specify* ↗

(Specify source of receipts in Item 4)

**Item 4. SOURCE OF SALES, RECEIPTS, OR REVENUE**

List below the principal lines of merchandise sold, specific construction work done, products produced, or services provided and indicate the approximate percentage each was of the total dollar volume of business in 1997 (e.g., gasoline 85%, auto repairs 10%, oil 5%)

Source	Percent
	%
	%
	%
<b>TOTAL – Should equal 100%</b>	<b>100%</b>

**Item 5. MATERIALS CONSUMED**

If you are a manufacturer, list the primary materials consumed in producing the manufactured products.

**Item 6. CLASS OF CUSTOMER**

Mark (X) the ONE box which best describes to whom you sell most of your products or provide most of your services.

- To the general public (household consumers and individuals) . . . . . 1
- To retail or wholesale establishments . . . . . 2
- To construction contractors . . . . . 3
- To institutional, industrial, commercial, professional, government, or farm users . . . . . 4
- Other Customers – *Specify* ↗ . . . . . 5

**Item 7. REMARKS**

**Item 8. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.**

Name of person to contact regarding this report – *Print or Type*

Telephone	Area code	Number	Extension
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Signature of Authorized Person

**Penalty for Failure to Report**



**1997 ECONOMIC CENSUS**  
**Lighting Fixtures**

MC

**DUE DATE**  
**FEBRUARY 12, 1998**

If you have questions concerning this report, please call or write the Census Bureau. In any communication, be sure to refer to the 11-digit Census File Number (CFN) printed in the label to the right. Please return any correspondence with your completed report to:

BUREAU OF THE CENSUS  
1201 East 10th Street  
Jeffersonville, IN 47134-0001

Call for assistance, 8:00 a.m. to 8:00 p.m., Eastern Time, Monday through Friday:

**1-800-233-6136**

*Please read the accompanying instructions before answering the questions.*

*(Please correct any errors in name, address, and ZIP Code.)*

**YOUR RESPONSE IS REQUIRED BY LAW.** Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer the questions and return the report to the Census Bureau. By the same law, **YOUR CENSUS REPORT IS CONFIDENTIAL.** It may be seen only by Census Bureau employees and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process.

**Item 1A. EMPLOYER IDENTIFICATION NUMBER**

Is the Employer Identification Number (EIN) shown in the label the SAME as the one used for this establishment on its latest 1997 Employer's Quarterly Federal Tax Return, Treasury Form 941?

094

1  Yes

2  No - Report current (9 digits) EIN →

		-							
--	--	---	--	--	--	--	--	--	--

**Item 1B. PHYSICAL LOCATION - (Answer a through d)**

**a.** Is this establishment's physical location the same as the address shown in the label? (P.O. box and rural route addresses are not physical locations)

Yes

No - Enter physical location →

Number and street

City, village, or other place

State

ZIP Code

**b.** Is this establishment physically located inside the legal boundaries of the city, town, village, etc.?

095 1  Yes

2  No

3  No legal boundaries

4  Do not know

**c.** In what type of municipality is this establishment located?

096 1  City, village, or borough

3  Other - Specify \_\_\_\_\_

2  Town or township

4  Do not know

**d.** In what county is this establishment located?

**Item 2. EMPLOYMENT IN 1997**

**a. Number of PRODUCTION WORKERS during pay period including the 12th of month** (Include both full- and part-time employees)

(1) **March 12**

**Key**

**1997**

301

(2) **May 12**

302

(3) **August 12**

303

(4) **November 12**

304

**b.** (Sum of lines (1) through (4))

305

**c. Average annual production workers** (Divide line b by 4 - omit fractions)

306

**d. ALL OTHER EMPLOYEES** (Pay period including March 12)

307

**e. Total** (Sum of lines c and d)

308

**Item 3A. ANNUAL PAYROLL** (Exclude fringe benefits)

Mil.

Thou.

**a. Production workers' wages**

309

**b. All other salaries and wages**

310

**c. Total** (Sum of lines a and b)

311

**Item 3B. FIRST QUARTER PAYROLL** (Exclude fringe benefits)

**Total payroll for the first quarter (January-March)**

315

**Item 4. PLANT HOURS WORKED BY PRODUCTION WORKERS IN 1997** (Annual)

**Total plant hours worked by production workers in 1997**

320

**Items 3C, 5A, 5C, 6a, 6c, 7, 9, 11, and 13** - Not applicable to this report

**CONTINUE ON PAGE 2**

<b>Item 5B. VALUE OF PRODUCTS EXPORTED</b> (This is a breakout of the total value of shipments reported in item 18B)		<b>Key</b>	<b>1997</b>		<i>Mark (X) if "0"</i>				
Report the value of PRODUCTS SHIPPED FOR EXPORT. Include shipments to customers in the Panama Canal Zone, the Commonwealth of Puerto Rico, and U.S. possessions, as well as the value of products shipped to exporters or other wholesalers for export. Also, include the value of products sold to the U.S. Government to be shipped to foreign governments. DO NOT INCLUDE PRODUCTS SHIPPED FOR FURTHER MANUFACTURE, ASSEMBLY, OR FABRICATION IN THE UNITED STATES.			Mil.	Thou.					
		399			<input type="checkbox"/> 0				
<b>Item 6b. TOTAL CAPITAL EXPENDITURES FOR 1997</b>		<b>Key</b>	Mil.	Thou.	<i>Mark (X) if "0"</i>				
<b>Capital expenditures for new and used buildings and machinery (exclude land)</b>									
<b>(1) Buildings and other structures</b>		348			<input type="checkbox"/> 0				
<b>(2) Machinery and equipment</b>		349			<input type="checkbox"/> 0				
<b>(3) Total capital expenditures</b> (Sum of lines (1) and (2))		350			<input type="checkbox"/> 0				
<b>Item 6d. GROSS VALUE OF ALL DEPRECIABLE ASSETS (original cost) AT END OF 1997</b>		<b>Key</b>	Mil.	Thou.	<i>Mark (X) if "0"</i>				
<b>Buildings, machinery, and equipment (exclude land)</b>									
		356			<input type="checkbox"/> 0				
<b>Item 8. TOTAL RENTAL PAYMENTS FOR 1997 (include land)</b>		<b>Key</b>	Mil.	Thou.	<i>Mark (X) if "0"</i>				
<b>Buildings, machinery, and equipment (include land)</b>									
		362			<input type="checkbox"/> 0				
<b>Item 10. COST OF MATERIALS AND CONTRACT WORK FOR 1997</b>		<b>Key</b>	Mil.	Thou.	<i>Mark (X) if "0"</i>				
<b>a. Cost of materials, parts, containers, etc., used</b> (Report detail in item 17)									
		321			<input type="checkbox"/> 0				
<b>b. Cost of products bought and sold without further processing or assembly</b> (Report sales in item 18B)		322			<input type="checkbox"/> 0				
<b>c. Cost of fuels consumed for heat and power</b>		323			<input type="checkbox"/> 0				
<b>d. Cost of purchased electricity</b>		324			<input type="checkbox"/> 0				
<b>e. Cost of contract work done for you by others on your materials</b>		325			<input type="checkbox"/> 0				
<b>f. Total</b> (Sum of lines a through e)		326			<input type="checkbox"/> 0				
<b>Item 12. INVENTORIES OF THIS ESTABLISHMENT AT END OF YEAR</b> (Report both years)		<b>Key</b>	<b>1997</b>		<i>Mark (X) if "0"</i>	<b>Key</b>	<b>1996</b>		<i>Mark (X) if "0"</i>
Report inventories at cost or market using generally accepted accounting methods.			Mil.	Thou.			Mil.	Thou.	
<b>Are inventories of this establishment subject to the LIFO method of valuation?</b>									
<b>a. Finished goods</b>		335			<input type="checkbox"/> 0	331			<input type="checkbox"/> 0
<b>b. Work-in-process</b>		336			<input type="checkbox"/> 0	332			<input type="checkbox"/> 0
<b>c. Materials, supplies, fuels, etc.</b>		337			<input type="checkbox"/> 0	333			<input type="checkbox"/> 0
<b>d. Total inventories</b> (Sum of a, b, and c)		338			<input type="checkbox"/> 0	334			<input type="checkbox"/> 0
<b>e. Of the value on line d, report:</b>									
<b>(1) Amount not subject to LIFO costing</b>		368			<input type="checkbox"/> 0	364			<input type="checkbox"/> 0
<b>(2) Amount subject to LIFO costing (gross)</b>		369			<input type="checkbox"/> 0	365			<input type="checkbox"/> 0
<b>f. Report the following applicable to line e(2):</b>									
<b>(1) Amount of the LIFO reserve</b>		370			<input type="checkbox"/>	366			<input type="checkbox"/> 0
<b>(2) LIFO value of line e(2) (net)</b>		371			<input type="checkbox"/> 0	367			<input type="checkbox"/> 0
<p>230 1 <input type="checkbox"/> Yes – Use the sum of the LIFO amount plus the LIFO reserve for completing lines a through e(2). Note: If you changed to LIFO for calendar year ending 1997, specify in the REMARKS section.</p> <p>2 <input type="checkbox"/> No – Complete only lines a through e(1) Note: Line e(1) should equal line d</p>									
<b>Items 3C, 5A, 5C, 6a, 6c, 7, 9, 11, and 13</b> — Not applicable to this report									
<b>CONTINUE ON PAGE 3</b>									



If not shown, please enter your 11-digit Census File Number from the address label on page 1 Census File Number

**Item 14. LEGAL FORM OF ORGANIZATION**  
 Mark (X) in the ONE box that best describes this establishment during 1997.

003 1  Individual proprietorship 5  Government - Specify \_\_\_\_\_

2  Partnership 0  Corporation (do not mark if any form of cooperative association)

3  Cooperative association (taxable) 9  Other - Specify

4  Cooperative association (tax-exempt) \_\_\_\_\_

**Item 15. OPERATIONAL STATUS**  
 Mark (X) in the ONE box that best describes this establishment at the end of 1997.

001 1  In operation

2  Temporarily or seasonally inactive

3  Ceased operation - Give date at right

4  Sold or leased TO another operator - Give date at right AND enter name, etc., below

5  Acquired or leased FROM another operator - Give date at right AND enter name, etc., below

} GIVE DATE → Enter figures only

Month	Day	Year

Name of new/former owner or operator 002

Employer Identification Number (9 digits) -

Number and street City State ZIP Code

**Item 16. OWNERSHIP, CONTROL, AND LOCATION OF OPERATIONS**

a. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) "0"?

Yes - Answer parts b-d  
 No - SKIP to item 17

097 **b. Is this company owned or controlled by another company?**

1  Yes →  
 2  No

Name and address of owning or controlling company

Kind of business of this company

Employer Identification Number (9 digits)

---

098 **c. Does this company own or control any other company or companies?**

1  Yes →  
 2  No

Name and address of owned or controlled company  
 If more space is needed attach a separate sheet

Kind of business of this company

Employer Identification Number (9 digits)

d. Did this company operate at more than one location during 1997? If more space is needed, attach a separate sheet.

079 1  Yes - List additional locations below.  
 2  No - SKIP to item 17

(1)	(2)	(3)		(4)		(5)	(6)
		Mil.	Thou.	Mil.	Thou.		
091 1	2 KB	4		5		6	7
							<input type="checkbox"/> Yes <input type="checkbox"/> No
092 1	2 KB	4		5		6	7
							<input type="checkbox"/> Yes <input type="checkbox"/> No
093 1	2 KB	4		5		6	7
							<input type="checkbox"/> Yes <input type="checkbox"/> No

**Items 3C, 5A, 5C, 6a, 6c, 7, 9, 11, and 13** — Not applicable to this report

**CONTINUE ON PAGE 5**

## INSTRUCTIONS

### GENERAL INFORMATION

If you require an extension of time to complete this report, or if there are any other questions regarding this report, please write to:

**Bureau of the Census  
1201 East 10th Street  
Jeffersonville, IN 47134-0001**

Please include the 11-digit Census File Number which appears in the address box of this report form on any correspondence.

You may also call our toll free number 1-800-233-6136.

Public reporting burden for this collection of information is estimated to vary from one-half hour to 6 hours per response, with an average of 3.4 hours per response,

including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Associate Director for Administration/Comptroller, Attn: Paperwork Reduction Project 0607-0733, Room 3104, Federal Building 3, Bureau of the Census, Washington, DC 20233-3600. You are not required to respond to any information collection unless it displays a valid approval number from the Office of Management and Budget (OMB). The OMB 8-digit number appears in the upper right corner of this form.

### DETAILED INSTRUCTIONS FOR ITEMS 2 THROUGH 12

#### **Item 2 — EMPLOYMENT IN 1997**

Report all employees at this establishment who received pay for part of the pay period including the 12th of the specified months. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners.

**Line a, (1) through (4) — Number of production workers during the pay period including 12th of month** — Report workers (up through the working-supervisor level) engaged in fabricating, processing, assembling, inspecting, and other manufacturing.

**Line d — All other employees** — Report nonproduction personnel, including those engaged in supervision (above the working-supervisor level), installation and servicing of own product, sales, delivery, professional, technical, administrative, etc.

#### **Item 3 — ANNUAL PAYROLL (Exclude fringe benefits)**

Follow the definition of salaries and wages used for calculating the Federal withholding tax. Report gross earnings prior to deductions paid in the calendar year to those employees reported in item 2. Include commissions, dismissal pay, bonuses, and vacation pay.

#### **Item 4 — PLANT HOURS WORKED BY PRODUCTION WORKERS IN 1997 (ANNUAL)**

Include all production hours worked, including overtime hours, but excluding paid vacations, etc. These should be reported as actual hours worked, not straight-time equivalent hours.

#### **Item 5B — VALUE OF PRODUCTS EXPORTED**

Report as exports those shipments going directly for export, including shipments to foreign subsidiaries or foreign divisions of your company and their affiliates. Include value of products shipped to exporters or other wholesalers for export. Also include the value of products sold to the U.S. Government to be shipped to foreign governments. Do not include products shipped for further manufacture, assembly, or fabrication in the United States. Shipments to customers in the Panama Canal Zone, the Commonwealth of Puerto Rico, and U.S. possessions are considered exports. Before completing this item, note that the value of exports should not exceed the total value of shipments and other receipts reported in item 18B.

#### **Item 6b — TOTAL CAPITAL EXPENDITURES FOR 1997 (Exclude expenditures for land)**

Include all costs actually incurred during 1997 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained. This should include construction and repair work performed by your own forces.

#### **Item 6d — GROSS VALUE OF ALL DEPRECIABLE ASSETS AT END OF 1997**

Report the original cost of depreciable assets on the books of this establishment such as buildings, structures, machinery, and equipment for which depreciation or amortization reserves are maintained. Improvements and new construction in progress, but not completed at year-end, should be included in fixed assets at a value equal to the cumulative expenditures to the end of the year. This procedure should be followed even though the asset is not in use and is not yet being depreciated.

#### **Item 8 — TOTAL RENTAL PAYMENTS FOR 1997**

Report rental payments made during the year to other companies for use of such fixed assets as buildings, structures, and equipment (including land). If the parent or subsidiary rents property for use of this establishment and pays the rent, the rents should be reported as if the establishment paid them.

#### **Item 10 — COST OF MATERIALS AND CONTRACT WORK FOR 1997**

Report total delivered cost after discounts and include freight of the materials actually consumed or put in production during the year. Include purchases, interplant transfers, and withdrawal from inventories.

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

**Line a — Cost of materials, parts, containers, etc., used** — The delivered cost figures should cover all raw materials, containers, scrap, supplies, etc., which were: (1) put into production, (2) used as operating supplies, or (3) used in repair and maintenance. Item 10, line a should be consistent with the data in item 17.

**Line b — Cost of products bought and sold without further processing or assembly** — Report the cost of all products bought and sold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all such products is to be reported in item 18B on the line for resales.)

**Line c — Cost of fuels consumed for heat and power** — Report the total cost of all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated costs of fuels, such as sawdust or blast furnace gas, produced as a byproduct of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels, including purchased steam. Be sure to include fuel used to power delivery trucks, fork lifts, or other motor vehicles associated with the establishment.

**Line d — Cost of purchased electricity** — Report the total cost of electric energy purchased from other companies or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

**Line e — Cost of contract work done for you by others on your materials** — If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and freight in. Exclude the cost of materials worked on, which should be included in item 10, line a.

#### **Item 12 — INVENTORIES OF THIS ESTABLISHMENT AT END OF YEAR (Report both years)**

Report the value of all inventories owned by this establishment regardless of where the inventories are held. If this establishment is part of a multiestablishment company, the company should assign to each establishment those inventories that the establishment is responsible for, as if it owned them. For example, in completing the report of a manufacturing establishment or sales branch, report those inventories that are attributable to its operations, even if the inventories are held elsewhere; e.g., at a warehouse operated by your company or in a public warehouse. These inventories of an operating establishment held elsewhere should not be reported on the report of the warehouse where they are actually stored. **Inventories should not be duplicated on establishment reports.**

CONTINUE ON PAGE 5

If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

**Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997**

**INSTRUCTIONS**

**1. General** – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**2. Valuation of Materials Consumed** – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

**3. Produced and Consumed** – Forgings, foundries, and screw machine products – Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

**4. Contract Work** – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

**5. Resales** – Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

Line No.	Materials, parts, and supplies  (A)	Census material code  (B)	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			(E)		
		571	574	Thou-	Dollars
			Millions	sands	
1	Specialty transformers and fluorescent ballasts	361201 7	\$		
2	Current-carrying wiring devices	364300 4			
3	Electric lamp bulbs	364101 6			
4	Flat glass (plate, float, and sheet)	321101 8			
5	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	282104 9			
6	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	308007 4			
7	Fabricated plastics products, except gaskets	308006 6			
8	Insulated wire and cable, including magnet wire	335796 9			
9	Paperboard containers, boxes, and corrugated paperboard	265001 8			
10	FABRICATED METAL PRODUCTS (Except forgings)				
	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2			
11	Metal poles	349910 0			
12	All other fabricated metal products	340060 3			
13	Forgings	346000 3			
14	CASTINGS (Rough and semifinished)				
	Iron and steel	332001 7			
15	Aluminum and aluminum-base alloy	336005 4			
16	Other nonferrous	336003 9			

CONTINUE WITH ITEM 17 ON PAGE 6

**Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued**

Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  <b>(B)</b>	Consumption of purchased materials and of materials received from other establishments of your company			
				Cost, including delivery cost (freight-in) <b>(E)</b>			
				574	Thou-	Dollars	
				Millions	sands		
17	Shapes and Forms (Except castings and forgings)	STEEL	Sheet and strip	331022 4	\$		
18			Wire and wire products	331027 3			
19			All other steel mill shapes and forms	331096 8			
20	ALUMINUM AND ALUMINUM-BASE ALLOY		Sheet, plate, foil, and welded tubing	335301 8			
21			Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	335405 7			
22			All other (wire, rolled rod and bar, etc.)	335008 9			
23		Copper and copper-base alloy	335004 8				
24		Other nonferrous shapes and forms	335099 8				
25	Lamp shades		399951 3				
26	Cost of all other materials and components, parts, containers, and supplies consumed . . . . . <i>Describe the principal materials, etc., included in this value.</i>		970099 8				
27	<b>TOTAL</b> Sum of lines 1–26 should equal item 10, line a			\$			

**Item 18A – Not applicable to this report**

**Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997**

**INSTRUCTIONS**

- General** – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.  
If quantities are requested, please use the unit of measure specified.  
If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.
- Valuation of Products** – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.  
If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.
- Contract Work** – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines

- PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.
- Resales** – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
  - Detailed Data Reported Elsewhere** – Items denoted by an asterisk (\*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:
    - MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls
    - MA36K, Wiring Devices and Supplies
    - MA36L, Electric Lighting Fixtures
    - MA36P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment
- NOTE:** Only CIR totals are requested; do not duplicate detail reported on the CIR.

**CONTINUE WITH ITEM 18B ON PAGE 7**

If not shown, please enter your 11-digit Census File Number from the address label on page 1		Census File Number							
ITEM 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports		Census product code 581	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts			
				CIR form (B-2)	Codes (B-3)	Value, f.o.b. plant (E)			
(A)	(B-1)					584	Millions	Thou- sands	Dollars
1	Residential-type electric fixtures (except portable; including parts and accessories) (36451)*		36451 00 3	MA36L	1011-1101	\$			
2	<b>Portable Residential-Type Lighting Fixtures and Parts for Portable Residential-Type Lighting Fixtures (36457)</b>	INCANDESCENT PORTABLE LAMPS, COMPLETE WITH SHADE (Report lamps without shades on line 6)	Floor lamps	36457 21 6					
3			Wall lamps (including adjustable types)	36457 22 4					
4			Table lamps (excluding desk)	36457 23 2					
5			Other (including boudoir and desk) – Specify kind	36457 29 9					
6			Incandescent portable lamps sold without shades (including floor, table, etc.)	36457 32 3					
7			Fluorescent portable lamps (desk, etc.)	36457 61 2					
8			Parts and accessories for portable residential lighting fixtures	36457 73 7					
9			Commercial- and institutional-type electric lighting fixtures (including parts and accessories) (36462)*		36462 00 0	MA36L	2101-2298		
10	Industrial-type electric lighting fixtures (including parts and accessories) (36463)*		36463 00 8	2302-2339					
11	Vehicular lighting equipment, electric (including parts and accessories) (36470)		36470 00 3						
12	Outdoor lighting equipment except lamps (including parts and accessories) (36485)*		36485 00 1	MA36L	2510-2598				
13	<b>Other Electric and Nonelectric Lighting Equipment (Including hand portable equipment and parts and accessories) (36489)</b>	INCANDESCENT HAND PORTABLE LIGHTING EQUIPMENT (Except parts)	Rechargeable battery-operated	36489 12 8					
14			Other than rechargeable battery-operated:						
			• Flashlights and flashlight lanterns (one to five cells)	36489 16 9					
15			• Other, such as miners' lights, emergency warning lights, generator flashlights, etc. – Specify kind	36489 17 7					
16	Other incandescent electric lighting equipment (including marine markers or beacons, railway and other vehicular route lighting equipment, etc.), except parts and accessories – Specify kind		36489 31 8						
17	Other fluorescent lighting equipment, complete units (including processing and technical equipment) – Specify kind		36489 75 5						
18	Other electric lighting equipment (including electrical discharge, such as mercury vapor [other than street and highway lighting equipment], sodium vapor [excluding signs], ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately), etc. – Specify kind		36489 79 7						

CONTINUE ON PAGE 8

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports			Census product code	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts		
					CIR form (B-2)	Codes (B-3)	Value, f.o.b. plant (E)		
	(A)	(B-1)	581	584			Millions	Thou- sands	Dollars
19	<b>Other Electric and Nonelectric Lighting Equipment (Including hand portable equipment and parts and accessories) (36489) – Continued</b>			36489 70 6			\$		
	Parts and accessories for other electric lighting fixtures, n.e.c.								
20	NONELECTRIC LIGHTING EQUIPMENT (Including parts)			36489 84 7					
	Nonelectric lighting fixtures and equipment, complete units (including lamps and lanterns (including kerosene, gasoline, propane, butane, etc., and carbide lamps of all types)) – <i>Specify kind</i>								
21	Parts and accessories for nonelectric lighting equipment (including reflectors and fittings, incandescent mantles, etc.) – <i>Specify kind</i>			36489 85 4					
22	Automotive mirrors (except mirror assemblies)			3231A 71 4					
23	Lampholders (36431)*			36431 00 5	MA36K	2000–2026			
24	Low voltage panelboards, distribution boards, and other switching and interrupting devices, 1000 volts and below (36133)*			36133 00 7	MA36A	3001–3201			
25	Alarm systems, including electric sirens and horns (marine, industrial and air raid) security locking systems (36691)*			36691 00 4	MA36P	3111–3149			
26	Motor vehicle hardware (including lock units, door and window handles, window regulators, hinges, license plate brackets, instrument panel knobs, etc.)			34296 00 4					
27	Parts for carburetors (excluding gaskets and screw machine products; including carburetor temperature controls)			35921 05 5					
28	Electric lamp bulbs and tubes (including sealed beam lamp bulbs) (36411)			36411 00 7					
29	Current-carrying wiring devices (including attachment plug caps, connector bodies, lightning arrestors, and pin-and-sleeve convenience power outlets; excluding lamp holders, convenience and power outlets (except pin-and-sleeve), switches, metal contacts, and wire connectors for electrical circuitry) (36436)*			36436 00 4	MA36K	3633–3698			
30	Parts for engine electrical/electronic equipment – <i>Specify kind</i>			36949 00 6					
31	Motor vehicle bumper assemblies, bumpers, and parts			37149 01 0					
32	Motor vehicle parts and accessories, new (excluding gasoline engine and gasoline engine parts, filters for internal combustion engines and motor vehicles, exhaust system parts, drive train components, wheels, and brake parts and assemblies, bumper assemblies, bumpers, and parts) – <i>Specify kind</i>			37149 00 2					

CONTINUE WITH ITEM 18B ON PAGE 9

If not shown, please enter your 11-digit Census File Number from the address label on page 1	Census File Number
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**Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued**

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports	Census product code <small>581</small>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts Value, f.o.b. plant (E)		
			CIR form (B-2)	Codes (B-3)	<small>584</small>		
					Millions	Thou- sands	Dollars
(A)	(B-1)						
<b>33</b>	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT  <i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.</i>	18			\$		
<b>34</b>		26					
<b>35</b>		34					
<b>36</b>		42					
<b>37</b>		59					
<b>38</b>		67					
<b>39</b>		75					
<b>40</b>		83					
<b>41</b>		91					
<b>42</b>		CONTRACT WORK <i>Receipts for work done for others on their own materials . . . . . Describe below products worked on and kind of work.</i>	93000 00 8				
<b>43</b>	MISCELLANEOUS RECEIPTS Sales of scrap, refuse, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5					
<b>44</b>	REALES Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6					
<b>45</b>	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1-44, column (E)	77000 00 8			\$		

**CONTINUE WITH ITEM 19 ON PAGE 10**

**Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT**

**INSTRUCTIONS**

- 1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- 2. Purchases or receipts of the items specified below should be reported only in item 17.
- 3. Materials used to produce the items specified below should be reported in item 17.
- 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 5. Report quantities in the unit of measure specified in column (D).

Line No.	Item  (A)	Census code		Was this operation performed at this establishment during 1997?  (C)		Unit of measure for quantities  (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment  (E)			
		591	(B)	592	Yes			No		
1	Ferrous foundries	1001	7	1	<input type="checkbox"/>	2	<input type="checkbox"/>	Short tons		
2	NONFERROUS FOUNDRIES (Except die-casting)	1002	5	1	<input type="checkbox"/>	2	<input type="checkbox"/>	Thousand pounds		
3		Copper	1003	3	1	<input type="checkbox"/>	2		<input type="checkbox"/>	
4		Zinc	1004	1	1	<input type="checkbox"/>	2		<input type="checkbox"/>	
5		Other	1005	8	1	<input type="checkbox"/>	2		<input type="checkbox"/>	
6	Nonferrous die-casting foundries	1006	6	1	<input type="checkbox"/>	2	<input type="checkbox"/>			
7	Precision turned products (on screw machines, turning centers, and CNC equipment)	1007	4	1	<input type="checkbox"/>	2	<input type="checkbox"/>			

**Items 20 and 21 – Not applicable to this report**

**REMARKS** – Please use this space for any explanations that may be essential in understanding your reported data.

**Item 22. CERTIFICATION** – This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report ( <i>Print or type</i> )		Telephone	Area code	Number	Extension
667	1		2		
Name of company			Address ( <i>Number and street, city, State, ZIP Code</i> )		
FROM: Month		Day	Year	TO: Month	
666	1			2	
Signature of authorized person			Title		Date

Please photocopy this form for your records



